



**Fall 2018 Project Menu
(Round 2)**

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Memetic Warfare Tracker

Office of Analytics

International Information Programs

Overview:

Internet memes have a dark side. State and non-state actors use images, videos, gifs to spread disinformation and generally create an information environment hostile to the truth. Help us build a system for identifying and tracking malign memes targeting foreign publics, identify whether these malign memes belong to more comprehensive thematic efforts, and to whom these thematic efforts are directed.

Outcomes:

1. Understand the scope of memetic warfare and apply appropriate resources toward a solution
2. Acquire capability to track image-based communication
3. Integrate image-based communications into textual analyses
4. Develop ability to classify active digital information campaigns and their respective audience targets

Format of Final Project:

- A presentation based on:
- An academic paper describing:
- A working software prototype with:
- Examples of identified content classified into campaigns based on themes, languages, actors, and chronology.

Potential Areas of Useful Expertise or Interest:

Civil Society; Communications; Computer Science; Information & Communication Technology; International Relations; Marketing; Political/Military Affairs; Science and Technology;

Comments:

This is part of an ongoing effort. We can offer research assistance and oversight by a full-time senior data scientist employed by the Department with experience in the related areas, who can help get the teams on

track and make progress towards the goal. Several others in our office can also provide active feedback throughout the semester.

Maximum Number of Projects: 3

Measuring Embassy Activities for Successful Outcomes

Political/Economic Section

U.S. Mission to Uruguay

Overview:

Objective:

Measuring the impact of outcomes (results) from efforts intended to shape or alter public policy, public opinion, or individual decision making is a universal challenge that crosses disciplines. In a business setting it is termed “measuring return on investment or ROI,” or in marketing/lobbying firms it is referred to as “measuring influence.” The U.S. Embassy in Montevideo is seeking to adapt existing influence measuring methodologies for its diplomacy activities through an improved understanding of analytical methodologies already in use in other areas. We also want a concise set of recommendations for measuring outcomes (not outputs) that may be used in setting Embassy priorities and designing new diplomatic activities.

Overview:

Embassy staff may be keen to claim that activities are successful while critics are more likely to frame activities as ineffective. The reality is that the outcomes of Embassy engagement activities are often somewhere in between these extremes. A primary challenge to evaluating policy effectiveness is the lack of an effective framework to gauge or quantify the impact of policy engagement. Lacking this mechanism to quantify causal impacts, embassies resort to measuring inputs (ex. one training session, two visits) or outputs (ex. training participants like the session; two visits were successfully concluded) that may or may not lead to desired movement on a policy objective (outcomes). An added difficulty is that activities have multiple dimensions, succeeding in some respects but not in others (ex. a training session helped us build those essential diplomatic relationships, but did it improve prosecutors’ abilities in an accusatorial trial system?). Embassy Montevideo is seeking a framework and methodology to measure policy outcomes in our three policy areas of Economic Prosperity, Democracy/Social Justice, and Global Security. Post will provide more specificity regarding policy objectives. The goal is to understand how successful activities (outputs) in each area have affected positive (or negative) change in projected policy outcomes.

Embassy Montevideo views an initial measurement framework in three dimensions: process inputs (events, activities, etc.), programs (strategic policy areas), and context [politics] (local public opinion, public policy). How do we measure policy success in terms of outcomes? Analysis of what may constitute success in Uruguay may involve the examination of a range of sources in the public domain such as government statements, newspaper editorials, nongovernmental briefings, polling data, and academic articles.

(Key words: measuring policy change, policy evaluation, empirical methods, and social sciences.)

Format of Final Project:

The final product format should be a memo or white paper (no more than 10 pages) that provides an executive summary with recommendations, highlights information analysis and recommends measurements of policy advancement for, e.g., the fight against transnational organized crime, spreading 21st century skills for greater prosperity, and preparedness for new criminal justice-sector procedures. The final product should also provide specific, real-world examples of how international affairs professionals measure success as they engage in advocacy activities for the sole purpose of affecting change in a specific government policy or a cultural change among the broader population.

Potential Areas of Useful Expertise or Interest:

International Relations; Marketing; Sociology; Statistics; measuring policy change, policy evaluation, empirical methods, and social sciences

Comments:

Foreign Service Officers, indeed USG officials, are not trained, equipped or funded to measure the effects of the programs and activities they implement. To make better use of limited resources and set priorities in the field, Embassies must be better equipped to measure local successes and failures. Embassy leadership may thus set priorities to engage in activities that have a higher chance of success and, with critical decision making data and measurements available, end those activities that may be exercises in futility while providing valuable feedback to the Department.

Maximum Number of Projects: 1

An Examination of the Bureau of Public Affairs Reporting Capabilities

Executive Office

Public Affairs

Overview:

Examine the reporting capabilities of the Bureau to include conducting an organizational assessment and/or process evaluation exploring reporting capabilities in their current state and then further examining their efficiency/effectiveness/programmatic metrics to identify duplication of efforts and suggest areas of improvement.

Format of Final Project:

Final product report should not exceed 25 pages and the report should include the following details: project design, research methodologies applied, how recommendations support Public Affairs and Dept. of State's mission proposed. Accompanying processes maps and our visual illustrations should also be included in the report and can contribute to the page limit. Accompanying PowerPoint presentation is also preferred but not required.

Potential Areas of Useful Expertise or Interest:

Anthropology; Communications; Information & Communication Technology; International Relations; Marketing; Science & Technology; Sociology; Statistics; Data Analytics; Organizational Design; Social Science

Comments:

- Data analytics experience (to include proficiency and/or working knowledge of sentiment analysis)
- Organizational design, project management, evaluation, research, and/or social science background(s).
- Proficiency and/or working knowledge of data analysis software's preferably based on examining communication engagement (e.g. software's such as Shared Count, Sysomos, Sysomos Expion, Crimson Hexagon, TrendKite, Crowd Tangle, SimilarWebb, Google Analytics (GA), GA-360, Hootsuite, Slack, etc.)
- *Additional Expertise* (preferred but not required): experience in communication planning, strategic planning, and/or public affairs.

Maximum Number of Projects: 1

The Role of STEAM Programming in Public Diplomacy

Bureau of International Information Programs, Regional and Functional Strategy

International Information Programs

Overview:

Science Diplomacy for Public Diplomacy is a new area for development requiring more baseline research. While diplomacy initiatives exist between scientists and governments, and between scientists and scientists, there are fewer efforts to engage foreign public audiences with Science Diplomacy for Public Diplomacy. Science, Technology, Engineering, Arts, and Mathematics (STEAM) are universally perceived as apolitical, providing an excellent vehicle for engaging societies on global, regional, and local problems, and providing a platform for the USG to promote its interests. The U.S. is a leader in the STEAM fields and should capitalize on this strength to further the goals of public diplomacy by strengthening people-to-people ties, increasing mutual understanding, and linking foreign audiences to U.S. foreign policy objectives. The UN 17 Sustainable Development Goals that address ending poverty, protecting the planet and ensuring prosperity, also represent key US foreign policy objectives that can be addressed through STEAM solutions.

No definitive study exists on the effectiveness of Science Diplomacy as Public Diplomacy. Anecdotal stories have surfaced on the use of science in public diplomacy, for example to change cultural behavior to stop the Ebola virus epidemic from spreading, or to change attitudes in Pakistan regarding the suspicion that vaccination programs were CIA plots to sterilize women. STEAM programming has been used to empower women in gender adverse societies, to crowd source a technological solution to an environmental or social problem, and to engage with youth through the Maker Movement and Innovation stimulation programs. Hackathons, Tech Camps, Math Olympics, Robot Games, etc., have emerged as fora for engagement with foreign audiences, and serve as excellent opportunities for crowd sourcing and collaborative projects.

Given that the field of Science Diplomacy is as large as science itself, this project can be divided into sections. University courses can tackle the history and application of Science Diplomacy, the Maker Movement and the emphasis on finding technological solutions and stimulating innovation to solve problems. Diplomacy courses can explore the best STEAM programming for foreign audiences given different regional and cultural environments. Education courses could tackle the development of popular science education through Science Centers, Science Museums, NASA's GLOBE program, Kahn Academy, MIT Open Course Ware, and other online STEAM education courses.

Methodologies to assess the impact of STEAM programming on foreign audiences can vary from bibliographic research, online searches, and social media interviews. IIP and ECA can provide support for guiding students to relevant sources and access to foreign audiences.

Format of Final Project:

The expected deliverables are:

1. A summary analysis of the key findings (5 pages max. plus appendix)
2. Bibliographic sources, studies, and interviews
3. Recommendations for the USG to promote and pursue STEAM programming for foreign audiences

Potential Areas of Useful Expertise or Interest:

Science and Technology

Comments:

This project requires students with competence in research techniques, surveying methodologies, and analytical tools. Experience in text analytics is not required but students should be able to learn Python and Natural Language Toolkit (NLTK) to conduct social media searches. Knowledge in data visualization is a big plus.

Students in the STEAM fields, Social Sciences, Science History, Science Education, and Public Diplomacy are preferred, although we welcome students from any discipline with solid technical background and strong willingness to learn.

This project is suitable for students who want to apply research and technical skills in finding insights on social issues.

About us:

The Bureau of International Information Programs (IIP) supports embassies and consulates in their communications to foreign audiences, specifically through public diplomacy outreach in digital and physical platforms, including a network of 700 American Spaces in all six geographical regions. American Spaces serve as public engagement platforms with foreign audiences, many located in partner universities, libraries, and NGOs, as well as Bi-National Centers, and American Centers owned by the USG. Programming aims to promote English Language Learning, Study in the USA, Cultural Outreach, Alumni Networking, and Information about the USA. Dynamic programs engage various audiences from youth to professionals. A recent development is the emergence of “Maker Spaces” and “Science Corners” to introduce STEAM programming in pursuit of USG foreign policy objectives. Partnerships with local Science and Tech centers and school systems have also enlarged the potential for strategic public diplomacy.

Maximum Number of Projects: 5

Documenting Our Diplomatic Treasures at African Posts

Bureau of African Affairs, Office of Economic and Regional Affairs

African Affairs

Overview:

Join the Africa Bureau's efforts to document culturally significant U.S. embassies, chanceries, ambassadorial residences, and missions on the African continent. Sub-Saharan Africa is the only region of the world not yet represented on the Secretary of State's Register of Culturally Significant Property. The Bureau seeks historic preservation, architecture, museum studies, and conservation teams to assist in research and identification of properties eligible for the Secretary's Register.

The Secretary of State's Register of Culturally Significant Property uses criteria analogous to the U.S. National Register of Historic Places. Criteria used to evaluate properties for eligibility for the Secretary of State's Register include acknowledgement by an African government as a significant property, or documentation indicating the property is integral to U.S. overseas heritage. Properties can also be listed based on association with a significant historical person or event, representation of an important architectural style or design by a noted architect, unique objects or visual features, distinctive themes or manufacture, and associated archaeological sites.

Project results will contribute to commemorating U.S. diplomatic heritage on the African continent and to preserving and promoting American history and architecture overseas. The project's evaluation of culturally significant U.S. properties in sub-Saharan Africa will contribute to our knowledge of historic U.S. diplomatic engagements on the African continent and bolster documentation of intersections in our shared past with African partners.

Format of Final Project:

A report documenting culturally significant U.S. properties in sub-Saharan Africa suitable for submission to the Department of State's Office of Overseas Buildings Cultural Heritage Office for review.

Potential Areas of Useful Expertise or Interest:

Historic preservation, architecture, archaeology, museum studies

Comments:

Africa is the cradle of humanity with natural and cultural diversity matched only by its long history. Focused on pressing development and security concerns, many African authorities have not yet taken stock of cultural properties or identified mechanisms to protect those properties from loss or destruction. Without attention and mechanisms to classify and safeguard heritage, African countries are at risk of losing markers of cultural identities, material evidence of rich histories, and unique ties connecting

communities to landscapes. Efforts to document the significance of U.S. cultural properties in sub-Saharan Africa, some of which represent properties of importance to African governments, will provide a mechanism to engage authorities on heritage protection mechanisms such as the Register, and initiate a conversation on the connection between protecting heritage and combatting economic development and poverty issues.

The rich diversity of African cultural heritage and the intricate history of U.S. diplomatic relations on the African continent provide a lens to evaluate properties critical to our collective understanding of world history. The identification and protection of cultural heritage is a vector of development and social stability, both for present and future generations. These efforts can also serve as the baseline to initiating a conversation with African local authorities on the management of both tangible and intangible heritages, and fostering cooperation with African institutions dedicated to heritage protection and preservation including the School of African Heritage (EPA), the African School of Urbanism and Architecture (EAMAU) and the Center for Heritage Development in African (CHDA).

Information on the Secretary of State's Register of Culturally Significant Properties:
<http://overseasbuildings.state.gov/register/register/>

Maximum Number of Projects: 2

Explain a Complicated Process - Passport Website Instructional Videos

Bureau of Consular Affairs, Passport Services, Community Relations (CA/PPT/S/PMO/CR)

Consular Affairs

Overview:

Travel.State.Gov is the only official resource customers can access to get the most up-to-date information on all things passport. The website tends to be text-heavy due to the amount of information that must be communicated to the customer, and a series of videos would help condense that information. This project seeks to develop a series of visually coherent videos that explain the complicated passport process in a way the public understands. The topics would likely include renewing a passport, applying for the first time, and minor passports, but are up for discussion.

Format of Final Project:

A series of 4-5 short videos explaining how to undertake basic passport tasks, such as renewing a passport, applying for the first time, getting a child's passport, etc. Ideal production would include a mix of animation, graphics, and text. Any sound would need to meet current 508 Compliance for the disabled or hard of hearing (example: closed captioning).

Potential Areas of Useful Expertise or Interest:

Marketing, Graphic Design, Photography, Film, Advertising, Tourism Studies

Comments:

We are very open to suggestions for how these videos might look- and we will provide you all of the content you need.

Maximum Number of Projects: 1

To Be or Not to Be - How to Evaluate Decision Making in Visa Adjudications

U.S. Consulate General Sao Paulo, Brazil (SPL)

U.S. Mission to Brazil

Overview:

Consular management at the U.S. Consulate in Sao Paulo Brazil seeks best practices on measuring personnel for their decision making.

Consular officers for the U.S. Department of State conduct in-person interviews to make decisions on who is eligible to receive a visa. A typical consular officer conducts 15,000+ interviews per year and receives a yearly written evaluation.

Effectively and appropriately reviewing a consular officer's performance is challenging for a variety reasons, including:(1) Variation in the complexity of interviews;(2) The sheer volume of data points (number of interviews, foreign language use, unique circumstances)(3) Limited management opportunities to observe interviews; and (4) Necessary subjectivity of the decisions themselves

The goal of our proposal is to improve the way we measure officers making thousands of decisions in a fairly subjective environment by comparing the methods used by private industry/universities.

Format of Final Project:

2-4 pages describing the advantages and disadvantages of current employee evaluation models. Analyses of positions that perform tasks similar to visa decisions (i.e. subjective decisions, multiple variables, large number of decisions) will be especially useful.

For example: An Ivy League college admissions officer must select the best applicants from a large number of applications. They take many data points into account (SAT, GPA, essay, extracurricular activities) and make thousands of decisions. How is an admissions officer's performance evaluated with an inherently subjective process that has many different variables? What are the challenges?

Potential Areas of Useful Expertise or Interest:

Management training, Human Resources expertise

Comments:

We are in the process of implementing a feedback tool but it is still in the early stages of testing. If selected, we are interested in using knowledge gained from these studies to evaluate this tool.

Maximum Number of Projects: 4

Build the First "Electoral Violence Dataset" for Africa

Bureau of Conflict and Stabilization Operations (CSO), Office of Analysis, Planning, Programming, and Learning (APPL)

Conflict and Stabilization Operations

Overview:

There has been an increasing policy focus on electoral violence in recent years, yet there are no good datasets which capture the type and magnitude of electoral violence across space and time. This high-resolution dataset would be of similar quality to the Armed Conflict Location Event Dataset (ACLED) and would capture several main types of electoral violence (such as violent riots/protests, assassinations, harassment/intimidation) and for each event would include the date, location (including province and town), event type, perpetrator name, victim name, and total fatalities (if any). The dataset would include events at least 18 months before and six months after an election day (most datasets on electoral violence only include events within a few days of an election). The dataset would focus only on Africa, and could use existing ACLED data as a starting point, adding an additional event type or additional event types to capture those events which could be directly attributed to an electoral cycle. Ideally, the coding would differentiate those events related to national elections from those events related to sub-national elections.

Format of Final Project:

Deliverables would include 1) A complete dataset from 1997 – present 2) A clear, useable codebook that can be used by analysts in the USG to extend the dataset and keep it current.

Potential Areas of Useful Expertise or Interest:

Conflict, Stabilization, & Reconstruction

Comments:

Knowledge of conflict datasets such as ACLED and MEPV will be helpful; knowledge of IR theory and conflict theory in particular would be helpful; knowledge of and experience using quantitative methods to investigate issues of conflict and crisis will be key, as will familiarity with electoral violence.

Extension of the dataset beyond just Africa would be beneficial, but is not likely doable in one semester. Follow-on projects could extend the dataset to additional regions.

Maximum Number of Projects: 1

Build the "Diplomatic Exchange" Dataset - The First Dataset Recording Global Head of State Visits from 1950 - 2015

Bureau of Conflict and Stabilization Operations (CSO), Office of Analysis, Planning, Programming, and Learning (APPL)

Conflict and Stabilization Operations

Overview:

The neo-realist concept of IR argues that structure (the distribution of material resources across units) drives outcomes in IR. The network approach, on the other hand, argues that a different kind of structure drives outcomes in IR – the structure of relationships and the property and patterns of those relationships between and amongst actors. In that vein, a global dataset recording all visits of heads of state would have great value. Head of state visits are the highest form of diplomatic exchange. As such, understanding the patterns and networks of head of state visits at the global level helps us to identify diplomatic power brokers and trace the flow of diplomatic influence around the world. There is currently no global dataset on head of state visits. Such a dataset would have immense value, especially for conducting classic Social Network Analysis.

Format of Final Project:

The deliverable would be a complete dataset, in matrix form, showing by year and country all visits, and recording the direction of the visit, the head of state doing the visiting, and the respective country and head of state being visited. A codebook will also be requested so that USG analysts could keep the dataset current.

Potential Areas of Useful Expertise or Interest:

Conflict, Stabilization, & Reconstruction

Comments:

Experience with quantitative approaches to IR and IR datasets will be critical. Suggest that this definition be used: “A head of state visit is defined as either a formal head of state visit or a meeting specifically between the two heads of state scheduled for that purpose. For example, a visit with a leader that takes place during an international conference or on the sidelines of one is not counted as a head of state visit. A visit by a head of state to an international conference where a head of state then holds separate bilateral talks with the head of state of the host nation is counted. A visit by one leader to a country where the head of state is not met by his or her counterpart is not counted.”

Maximum Number of Projects: 1

Finding More U.S. Host Families and Schools

Office of Public Affairs and Strategic Communications

Educational and Cultural Affairs

Overview:

Every year the Bureau of Educational and Cultural Affairs seeks to find volunteer families and high schools for about 2,000 international high school exchange students studying in the US for an academic year through ECA's academic year inbound programs (Congress-Bundestag Youth Exchange, Future Leaders Exchange, and Kennedy-Lugar Youth Exchange and Study programs). As part of this process PASC organizes regular campaigns to spread the word about this unique program and opportunity, and encourage families to open their homes to these students and schools to enroll the students. Despite these efforts, the Bureau has come up short the last few years. Word of mouth remains the primary vehicle for reaching potential host families. In the absence of a robust marketing division, and plentiful resources, PASC has found it difficult to effectively reach this audience and promote this campaign. Moreover, in the absence of direct contact with host family alumni networks, we have found that our promotional efforts have been unproductive. Through this project we are looking for support in rebranding the hosting campaign to make it more appealing to outside audiences and looking for assistance in identifying alternate ways of promoting this program. We are also looking for ways to tweak and/or incentivize the program to families as they are not paid for hosting and must undergo a thorough vetting process. How can we better promote the value of hosting ECA-funded students over other exchange students and/or other exchange programs that pay its host families and schools, which we are prohibited from doing by J-1 visa regulations? What might make the program more appealing? How can we expand awareness of the programs and extoll the benefits of hosting. What new partners could we work with?

Format of Final Project:

Marketing Strategy

Potential Areas of Useful Expertise or Interest:

Education & Cultural Studies; Information & Communication Technology; Public Affairs, Marketing, Communications

Comments:

N/A

Maximum Number of Projects: 2

Finding the Lost Generation in the Central African Republic

Public Affairs Office, U.S. Embassy Bangui

African Affairs to Central African Republic

Overview:

The Central African Republic has been buried in decades of violence, turmoil, and political unrest. While the country's instability has impacted its economy and society, the most disturbing impact has been on the next generation of citizens and leaders. With the disruption of government operations and services, schools closed, and in the regular periods of violence, children stayed home instead of going to school. Worst of all, as the security situation declined and young people saw their role models giving up on the country or engaging in violence with militias, they began to follow in their footsteps.

Now, as the Central African Republic faces an important turning point--presidential elections in December 2015 and January 2016--and the country has an opportunity to move forward from the violence and instability of the past, there are few young leaders with the motivation and education to step forward. The Embassy wants to support democratic institutions, accountability, and transparency and believes that encouraging the participation of the next generation is the key to these concepts. Embassy Bangui seeks input on two major questions: how can the Embassy and the United States best invest in a new generation of leaders; and how can the Embassy engage and support the existing youth, who are ready to advance the country?

Format of Final Project:

Post would like to receive a memorandum from the university(-ies), which includes two parts.

1. The first part should be a list of recommendations of specific programs, initiatives, or investments, which would support the development, training, or education of the next generation of leaders. These recommendations could be program proposals that the Embassy would make to the Central African Republic government, or programs, which the Embassy would administer.
2. The second part should be a list of events, trainings, or platforms that the U.S. Embassy could use to identify and develop young leaders.

Potential Areas of Useful Expertise or Interest:

African Studies

Comments:

Students with French language ability will be able to communicate more easily with Central Africans, however, French language ability is not required. Embassy Bangui believes that persons from a range of disciplines from education to social policy to international affairs can each offer extremely useful insights on this project.

Embassy Bangui encourages interested schools and universities to review the Embassy's Facebook page, which captures the outreach work currently being done (<https://www.facebook.com/usembassy.bangui/?ref=hl>). Embassy Bangui is also prepared to host an in-brief session to provide context on the Central African Republic, and will also coordinate at least one session between the school/university and the English-speaking Young African Leadership Initiative alumni (<https://youngafricanleaders.state.gov/>)

Maximum Number of Projects: 3

Women Soldiers: The Case of Lebanon's Male-Dominated Army

U.S. Embassy in Beirut, Public Diplomacy Section

U.S. Mission to Lebanon

Overview:

Women's enrollment in the Lebanese Army remains a highly controversial issue in the country. With women having pre-conceived stereotypes about the manner in which they will be treated within a male-dominated environment, coupled with the manner in which the army stigmatizes women, it is not anticipated that this dynamic will witness a shift anytime soon. Moreover, their ranking, promotion, and issues related to their competencies and skills in high ranking positions remains a taboo subject within the army itself. There has not only never been a female army commander in the history of the institution, but women are most often placed within administrative positions, and within positions that do not capitalize on their potential physical capabilities, which they are usually not to possess in the first place. Taking into account the high levels of corruption and the overwhelming and constant political instability in the country, coupled with the country's social, cultural, religious, and patriarchal values, combatting the notions of gender stereotyping and sexism hardly stands a chance. The important role of women in the military has yet to be shed light upon in Lebanon, and has yet to be discussed in separate discourse from the study of the army as one homogeneous entity. The project will focus on accessing as many women in the military as possible, through one on one interviews as well as the collection of testimonies in order to document this reality and come up with potential solutions. It will also focus on accessing: a sociologist, a psychologist, a historian/military expert, and a high-ranking male military official. The project will strike a comparison between the gender dynamic of the military in Lebanon and that of at least 3 case studies abroad – namely one European Country, the US and one other ME country.

Format of Final Project:

The final format of the project will be a 20 page research paper, complete with both the transcription of the highlights of the interviews as well as with recommendations and prospects.

Potential Areas of Useful Expertise or Interest:

Gender Studies; Middle East/North African Studies; Political/Military Affairs

Comments:

The team must consist of the authors of the paper, the interviewers and a supervisor.

Initial Readings: The Changing Role of Women in the Armed Forces by Nancy Goldman:

<http://www.jstor.org/stable/2776610?seq=1> page_scan_tab_contents

Maximum Number of Projects: 2

Jamaican Lotto Scamming: Root Causes and Policy Alternatives

Political/Economic Section

U.S. Mission to Jamaica

Overview:

Telemarketing fraud, known in Jamaica as “lotto scamming” because of the prominence of the tactic of the fraudsters’ luring American victims with tales of lottery winning, has grown dramatically in recent years. Anderson Cooper 360 did a segment on this crime in 2015 and CNBC’s “American Greed” will devote an entire show to it in 2016. Some of America’s most vulnerable citizens are losing significant sums of money – estimates range from \$300 million to over \$1 billion per year – and this has led to intense human suffering including a spate of suicides. This scourge is also damaging Jamaica’s international reputation and undermining Jamaica’s social stability and rule of law. Scammers are using their immense illicit gains on lavish lifestyles. This distorts the Jamaican economy writ large and serves as a major factor in driving up violent crime, specifically the homicide rate. The cultural justifications of lotto scamming – “Robin Hood”, informal “reparations for slavery” or victim blaming – are widely accepted, most disturbingly and increasingly among children in the regions of Jamaica with a high concentration of this fraud. Jamaican judges tend to give scammers suspended sentences, allowing them to go back to committing the crime. A professor of criminology in Jamaica projected that another major conflict, similar to the 2010 extradition operation in Tivoli Gardens that left 74 dead, could occur between authorities and criminals with lotto scamming ties in the phenomenon’s epicenter, Montego Bay, in western Jamaica. What are the sociological factors driving this epidemic? What are the best policy alternatives, including but not limited to social marketing and economic development, to combat this scourge? What law enforcement practices work best to apprehend and prosecute criminals, deter future scamming, and eliminate this menace? The answers to these questions will help inform the policy that Jamaican and U.S. officials implement to repair the severe damage it has done to Jamaican society and U.S. citizens.

Format of Final Project:

A four-page memo with a presentation and a data analysis describing research findings.

Potential Areas of Useful Expertise or Interest:

Criminal Justice/Law Enforcement; Sociology, Public Policy, Psychology

Comments:

None

Maximum Number of Projects: 3

Kuwaiti Land Use: Understanding a Distorted Market and Improving Efficiency in Land Allocation

Economics Section

U.S. Mission to Kuwait

Overview:

In Kuwait, 95% of land is owned by the government or controlled by the oil and gas sector. Less than five percent of the country's land is available for other uses. With only a small fraction of the country's land area available for building, competition is fierce and prices are astronomical. A 400 square meter (4500 square foot, 0.1 acre) residential lot can cost more than \$1 million, even in outlying areas. Larger plots can sell for more than \$10 million per acre. At the same time, Kuwait is littered with old and abandoned buildings serving no productive purpose. With no land taxes, property owners can let a valuable plot of prime land sit undeveloped for decades, further restricting the limited supply of usable land. Disinterest in selling land makes it difficult to assemble larger parcels needed for commercial and industrial use. This makes it more difficult for the non-oil parts of the economy to grow and substantially raises costs for large construction projects. Questions: What can be done to make the Kuwaiti land market more efficient? Could property taxes provide the impetus to return unproductive land to the market? How can the government extract hydrocarbons without limiting access to the land above them? Would a more efficient land ownership system increase investment and GDP? Would such a system lead to lower costs for residential land?

Format of Final Project:

The final product would be a package of documents, including an analysis of pricing under various simulations (Excel workbook); a PowerPoint presentation summarizing the findings for an executive-level audience; a policy paper of 10-20 pages; and an executive summary of less than two pages.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; tax policy, petroleum exploration, Bedouin culture, Arabic language, land use, real property law;

Comments:

Government websites are not always kept up to date, so it might be difficult to get information or statistics.

Maximum Number of Projects: 2

Azerbaijan's Political Past and Democratic Potential (Economy Project)

Caucasus and Regional Conflicts (EUR/CARC)

European and Eurasian Affairs

Overview:

Azerbaijan's economy is nearly completely dependent on its exportation of oil and natural gas. Since the decline of oil prices, the single-party ruled government has been struggling and has recently moved to diversify its economy.

This study would examine the efforts of Azerbaijan to expand its tourism and transport economic sectors. While the Azerbaijani government has spoken highly of these projects, this research would explore the extent of these changes and how they impact the people in communities where tourism is promoted and transportation hubs are being constructed.

Format of Final Project:

20-30 page research paper.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; Political/Military Affairs

Comments:

This would involve researchers in economic or political science departments and ideally should include a native Azerbaijani speaker.

The public materials about the government's projects promote the construction, but neglect to mention the scale and impact of these efforts. The goal of this project is understand the scale of changes and what the local populations think about them.

Maximum Number of Projects: 1

Rebalancing Public Diplomacy in Asia

Office of Opinion Research, Asia (INR/OPN/ASIA)

Intelligence and Research

Overview:

The Office of Opinion Research has historically supported public diplomacy officers with empirically-based research on public views across a broad range of issues that affect U.S. political, economic, and strategic interests. Our research helps public diplomacy officers design messages and programing to engage the public. The proliferation of web-based platforms over the last two decades has fundamentally changed the nature of U.S. outreach, increasing the number of requests our office receives to assess how online engagement shapes public views, and this entails thinking about how to analyze text as data and work with BIG DATA.

Focusing on U.S. Embassy Tokyo (and depending on feasibility, building out to include other missions in Asia), OPN/ASIA requests research teams to scrape two decades worth of the Embassy's public webpages—available freely online through the Internet Archive's Way Back Machine is the name of the software—to identify dominant themes, analyze how they were/are presented for public consumption via messaging and programming, and assess how these themes and associated outreach efforts have changed over time. We are particularly interested in how Embassy Tokyo (and others in the region) has shifted its messaging following the White House announcement of the U.S. rebalance to Asia.

Format of Final Project:

One written report, not to exceed 10 pages, that presents key findings and data visualization in a format that is easily accessible to the layperson with a 1 page executive summary. Syntax file with code/commands used to generate analyses.

Potential Areas of Useful Expertise or Interest:

Political/Military Affairs; Computer Science, Communications

Comments:

Political Science, computer science, communications, Asian studies, qualitative and quantitative methodology, proficiency with R and Python, data visualization, experience working with big data and conducting web crawls.

Useful Links:

<https://archive.org/>

<https://blog.archive.org/2013/01/09/updated-wayback/>

http://www.nytimes.com/2012/02/12/sunday-review/big-datas-impact-in-the-world.html?_r=0

<http://scholar.harvard.edu/msen/big-data-trends> <http://blog.oup.com/2013/11/is-big-data-a-big-deal-in-political-science/>

http://www.oxfordjournals.org/our_journals/polana/bdpsvirtualissueintromonroerev.pdf

http://www.oxfordjournals.org/our_journals/polana/virtualissue4.html

http://stanford.edu/~jgrimmer/bd_2.pdf

Maximum Number of Projects: 3

Combating WMD Proliferation Databases

Office of Counterproliferation Initiatives (ISN/CPI)

International Security and Nonproliferation

Overview:

UN Security Council 1540 Committee monitors what measures all UN Member States take to implement the more than 200 obligations and recommendations of UN Security Council resolution 1540 (2004). These legally binding obligations require States to prohibit some activities and to control others related to combating the proliferation of nuclear, chemical and biological weapons and their means of delivery, especially to terrorists and other non-State actors. In December 2015, the 1540 Committee posted matrices, each with nearly 400 elements, of these measures for 183 of the 193 UN Member States on its website (see <http://www.un.org/en/sc/1540/national-implementation/1540-matrix/committee-approved-matrices.shtml>). The Committee also publishes information on effective international and national practices and on offers of and requests for assistance. The project seeks development of up to three searchable databases:

Legal Measures: A searchable database of measures taken by each State. This database should help the 1540 Committee, UN Member States, civil society and industry identify which States have taken which measures to implement the resolution. By including links to specific national laws, regulations, and guidance, it will help all parties understand the current legal framework of nonproliferation, provide examples to States seeking to develop new measures, and allow more complex analysis of the existing data.

Effective Practices: A searchable database of effective international and national “effective” or good practices associated with implementation of UN Security Council resolution 1540. It will help States more readily identify well-recognized effective implementation practices.

Assistance: A searchable database of requests for and offers of assistance. This database will make it easier to match assistance offers and requests, as well more sophisticated analysis of requests and offers.

Format of Final Project:

1-3 searchable databases, in English (but preferably with compatibility for creating versions for the other five UN languages, i.e., Arabic, Chinese, French, Russian, Spanish users), and ready for posting on the 1540 Committee or similar website.

Although each database need not capture all the relevant information held by the UNSCR 1540 Committee on implementation measures, effective practices or assistance, they should allow for easy expansion to incorporate the full scope of information and future expansion.

Potential Areas of Useful Expertise or Interest:

International Relations, Non-Proliferation

Comments:

Information technology skills, particularly searchable databases for web-based applications. Knowledge of international relations and nonproliferation helpful.

For more information on UN Security Council resolution 1540 (2004), see <http://www.un.org/en/sc/1540/> (the UN Security Council 1540 Committee's website).

For a brief video from UN Messenger of Peace Michael Douglas on UNSCR 1540, see <http://www.un.org/en/sc/1540/transparency-and-outreach/un-multimedia.shtml>.

For PDF and Word templates of the new version of the 1540 Committee matrix, see <http://www.un.org/en/sc/1540/national-implementation/1540-matrix/matrix-template.shtml>.

To see the completed national matrices, see <http://www.un.org/en/sc/1540/national-implementation/1540-matrix/committee-approved-matrices.shtml>.

Maximum Number of Projects: 3

Mapping Efforts to Combat WMD Proliferation

Office of Counterproliferation Initiatives (ISN/CPI)

International Security and Nonproliferation

Overview:

UN Security Council 1540 Committee monitors what measures all UN Member States take to implement the more than 200 obligations and recommendations of UN Security Council resolution 1540 (2004). These legally binding obligations require States to prohibit some activities and to control others related to combating the proliferation of nuclear, chemical and biological weapons and their means of delivery, especially to terrorists and other non-State actors. In December 2015, the 1540 Committee posted matrices, each with nearly 400 elements, of these measures for 183 of the 193 UN Member States on its website (see <http://www.un.org/en/sc/1540/national-implementation/1540-matrix/committee-approved-matrices.shtml>).

Mapping what these States have done could provide a powerful visual tool for the international community. In particular, it should help the 1540 Committee, UN Member States, civil society and industry visualize the status of implementation of different obligations of the resolution, including providing links to specific national legal frameworks and effective practices. In doing so, it will help States more easily understand how to implement the resolution domestically and how to promote implementation globally.

Format of Final Project:

One to five interactive maps (with compatibility for creating a single global), in English (but preferably with compatibility for creating versions for Arabic, Chinese, French, Russian, Spanish users), and ready for posting on the 1540 Committee or similar website. The maps should allow users to choose a country in a region and see:- Links to the information the Committee has for that State; and- Whether or not the Committee has identified that the State has a relevant measure or measures in place for some obligations of the resolution (which obligations or an index of such obligations to be determined by project participants in consultation with the primary POC).As important, the regional map or maps should allow users to see at a glance which States the Committee has identified as taken relevant measures for a set of obligations across the entire region. Although a map need not capture all the information contained in the UNSCR 1540 Committee matrices, they should allow for easy incorporation of such information in the map in the future. Although geographic political mapping is preferred, alternative approaches to visualization could be considered.

Potential Areas of Useful Expertise or Interest:

International Relations; Non-Proliferation

Comments:

Information technology skills, particularly data visualization for web-based applications. Knowledge of international relations and nonproliferation helpful.

For more information on UN Security Council resolution 1540 (2004), see <http://www.un.org/en/sc/1540/> (the UN Security Council 1540 Committee's website).

For a brief video from UN Messenger of Peace Michael Douglas on UNSCR 1540, see <http://www.un.org/en/sc/1540/transparency-and-outreach/un-multimedia.shtml>.

For PDF and Word templates of the new version of the 1540 Committee matrix, see <http://www.un.org/en/sc/1540/national-implementation/1540-matrix/matrix-template.shtml>.

To see the completed national matrices, see <http://www.un.org/en/sc/1540/national-implementation/1540-matrix/committee-approved-matrices.shtml>.

Maximum Number of Projects: 5

Fostering Inclusion in the Workplace – Regional Survey

Special Advisor for International Disability Rights (SADR)

Civilian Security, Democracy, and Human Rights

Overview:

Despite progress made around the world towards advancing the rights of persons with disabilities, unemployment continues to be a challenge. Governments around the world have tried to address this challenge by promoting more inclusive work environments through a variety of programs including quota systems, incentive programs, public private partnerships, and awareness campaigns. The office of the Special Advisor for Disability Rights is interested in learning which countries have developed programs to support the employment of people with disabilities (and which ones haven't), if they have implemented these programs, and to what degree of success. SADR is interested in collecting information from comparable countries in the same region or economic community (for example, a survey or MERCOSUR members, Sub-Saharan African countries, or Gulf Cooperation Countries, or the MENA region).

The final report analyzing a region's efforts to promote employment and any particularly successful programs, will help SADR in promoting the employment of people with disabilities around the world by highlight gaps and providing best practices that can be scaled up or replicated elsewhere.

Research for the report would seek to understand laws, policies and programs on disability and employment/labor rights and vocational training systems. Sample questions might include:

- What government institutions, if any, are responsible for promoting the employment of persons with disabilities?
- Does the government collaborate with businesses in promoting the employment of persons with disabilities? If so provide further details.
- Does the government collect data on persons with disabilities in the labor market? If so, provide details. (unemployment, type of work, education level or worker, salary compared to non-disabled)
- Is there employment data on students who complete higher education and vocational training programs that show the number of students with disabilities placed in integrated/mainstream employment?
- Does the government address disability in the context of occupational diseases and injury? For example, does the government promote "stay-at-work" and "return-to-work" programs to ensure that workers affected by occupational disease and injury can either stay on the job or return quick to work after illness/injury?

Format of Final Project:

A final report (up to 3 pages per country, not to exceed 40 pages total); a presentation of data; one-page case studies on success stories

Potential Areas of Useful Expertise or Interest:

Political/Military Affairs; International Relations; Regional Studies programs; Disability Rights

Comments:

The Special Advisor for International Disability Rights (SADR) leads the U.S. comprehensive strategy to promote and protect the rights of persons with disabilities internationally. The United States, as part of our foreign policy, works to remove barriers and create a world in which disabled people enjoy dignity and full inclusion. Discrimination against people with disabilities is not simply unjust; it hinders economic development, limits democracy, and erodes societies.

In pursuing diplomacy that is inclusive and empowering of persons with disabilities, the United States: opposes discrimination against persons with disabilities everywhere and in all its forms; urges foreign governments to combat discrimination, prejudice and abuse against persons with disabilities in their countries, and to protect the rights and ensure the dignity and inclusion of all persons with disabilities on an equal basis with others; encourages and assists governments to learn about the development and effective implementation of laws to protect the rights of persons with disabilities; encourages and assists civil society organizations, including organizations of persons with disabilities and their families, to advocate for the rights of persons with disabilities; and encourages U.S. businesses operating overseas as well as domestic host country businesses to take into consideration persons with disabilities in relation to employment practices and local stakeholder engagement, including in their labor and human rights corporate social responsibility policies, programs, and practices.

Maximum Number of Projects: 3

Assessing the structure and impact of the Association of Bi-National Centers of Latin America – a 160 member English and cultural program network in the Western Hemisphere.

Office of Public Diplomacy and Public Affairs

Western Hemisphere Affairs

Overview:

For over six decades, Binational Centers (BNCs) have been key program partners for U.S. Embassies throughout Latin America and the Caribbean. BNCs are private, non-profit, autonomous organizations. They were in most cases established by local leaders and resident Americans to promote mutual understanding between the two countries. Historically, the State Department provided direct support to BNCs, however, much of that funding is limited today. Many BNCs have flourished thanks to revenue from English teaching, but some have struggled and a number closed their doors entirely. The quality of service now varies from center to center. As independent institutions, the BNCs established the Association of Binational Center of Latin America (ABLA). The ABLA network serves as an umbrella organization for the exchange of information, educational best-practices, curriculum development, planning and management. A group of 12 BNC directors form ABLA Steering Committee, which oversees the Association's annual conferences. The project will examine and assess the current ABLA structure to determine its organizational effectiveness, distill best practices to enhance its training capacity, student and community reach and sustainability. The research team should examine the role the Steering Committee plays in ABLA's management, the type of audience and marketing techniques.

Format of Final Project:

A five-page memo evaluating ABLA's capacity to serve as a best practice network of the BNC system in Latin America, and possible measures to strengthen its impact. Describe the current organizational strengths, evaluate if the current structure allow for innovation and provide the flexibility to meet the market demand. The conclusion should recommend ways to enhance the network, in addition to identifying strengths and weaknesses.

Potential Areas of Useful Expertise or Interest:

Marketing; Social Science; Data Analysis

Comments:

Social sciences – data analysis, marketing, consultancy. Familiarity with the region, analytical skills; Spanish and Portuguese preferred but not required. <http://www.ablaonline.org/bnc>

Maximum Number of Projects: 2

The Risk Assessment Index for Security and Human Rights

Office of Security and Human Rights

Democracy, Human Rights, and Labor

Overview:

Military units, justice institutions, and law enforcement bodies that make up the security sector exist to maintain the rule of law, protect the autonomy of States, and prevent individuals or groups from compromising the rights of others. The collective body of evidence available to policy makers suggests that certain institutions of accountability and oversight, both within government and within civil society, are critical to preventing security force misconduct, but to date, there is no diagnostic tool available for making a preliminary determination of the risk of gross violations of human rights based on the presence or absence of any of these indicators. This project aims to collect and review the known indicators of risk in one place where policy makers can assign a relative risk profile to a partner nation's security forces based on an index that includes quantitatively sound data and equally sound qualitative analysis at its foundation. This index rating can help policymakers understand how to shape security force assistance and direct attention to areas of deficiency in preliminary planning processes, and so that later field assessments can benefit from early warning and areas of necessary attention.

The team will research the available body of literature related to security sector reform to inventory the institutional, technical, and societal variables that have been assessed by credible experts and institutions (to include commissions of inquiry and other investigative bodies) as important for the prevention of and accountability for gross human rights violations. Examples may include specific technical interventions, the role of internal investigative units or the importance of policies and regulations governing security force conduct. These criteria may be grouped into sets or scorecards for various themes (such as "internal accountability mechanisms", "regulations", or "public oversight mechanisms"). Teams may wish to consider information available from the World Bank, the Geneva Center for Democratic Control of the Armed Forces, Special Rapporteurs for Torture and Combating Impunity, and the UN and related agencies, and other credible research organizations that specialize in security sector issues. Based on initial findings, students will then assign a relative weighting to the variables to develop a scoring methodology that is easily disaggregated or analyzed for its constituent parts; i.e., a total index score should also provide clues for where the partner country has strengths and weaknesses. The total relative score should provide a basic risk profile of any country and/or its security forces. The team will then demonstrate the applicability of the index by using it to remotely assess the risk quotient of a selection of security forces in countries that represent different regions of the world.

This project will be used by the human rights officers in DRL and elsewhere in the U.S. government in an effort to inform policies related to security force assistance, security sector reform, and other areas of priority for improving and professionalizing security forces and related institutions. Teams may be divided into qualitative/research focus and a statistical/ quantitative tool focus.

Format of Final Project:

The final product should be a document, to be submitted in stages throughout the semester, including:

- a. A literature review with preliminary findings
- b. A qualitative description of a set of criteria to be used in an assessment index
- c. a matrix of indicators, or an indicator assessment tool or “index”, determined by the team to be related to the presence and persistence of civilian abuse by the security sector, with explanation
- d. a section which uses the matrix to analyze case study countries in order to demonstrate relevance and applicability

The complete document does not need to be of any particular page length, but should be sufficient to include the above portions.

Potential Areas of Useful Expertise or Interest:

Conflict, Stabilization, & Reconstruction; Democracy & Human Rights; Political/Military Affairs

Comments:

Maximum of 4 – 6 teams that could share / divide work by research and literature review; primary analysis and variable weighting; quantitative index development; model testing; etc.

Maximum Number of Projects: 4

Organizational Network Analysis of OSAC Country Councils

Overseas Security Advisory Council

Diplomatic Security

Overview:

The Overseas Security Advisory Council (OSAC) is the State Department's premier public-private partnership, promoting security cooperation between American private-sector organizations operating overseas and the U.S. Department of State. Through the Country Council program, OSAC provides the private sector with a forum to share security information with U.S. diplomats overseas and OSAC's Research and Information Sharing Center (RISC). RISC staff work directly with U.S. Embassy Regional Security Officers (RSOs) and Country Council leadership to administer more than 140 Country Councils globally, with over 4,000 registered U.S. private-sector organizations.

The objective of the organizational network analysis is to examine the way information is shared in OSAC Country Councils, consider strategies to optimize information flows, and consider other possibilities for sharing security information outside of our existing networks.

Format of Final Project:

Paper format (maximum 30 pages) with 1-2 page executive summary.

Potential Areas of Useful Expertise or Interest:

Public-Private Partnerships

Comments:

None

Maximum Number of Projects: 2

Emerging Security Technology Applications for Country Council

Overseas Security Advisory Council

Diplomatic Security

Overview:

The Overseas Security Advisory Council (OSAC) is the State Department’s premier public-private partnership, promoting security cooperation between American private-sector organizations operating overseas and the U.S. Department of State. Through the Country Council program, OSAC provides the private sector with a forum to share security information and network with industry counterparts and U.S. diplomats overseas. OSAC’s Research and Information Sharing Center (RISC) staff work directly with U.S. Embassy Regional Security Officers (RSOs) and Country Council leadership to administer more than 140 Country Councils globally, with over 4,000 registered U.S. private-sector organizations. By harnessing technology, OSAC continues to introduce digital communication tools that enhance and expand the way that security information is collected and shared within OSAC Country Councils. All of these tools are “out of the box” technology solutions aimed at optimizing communications between RISC staff, RSOs, and U.S. organizations operating overseas.

The objective of this research project is to examine the OSAC Country Council model and recommend five emerging technologies that can enhance information sharing and digital engagement for the program. Also propose strategies for introducing new technologies to OSAC constituents and RSOs.

Format of Final Project:

Paper format (maximum 30 pages) with 1-2 page executive summary.

Potential Areas of Useful Expertise or Interest:

Public-Private Partnerships

Comments:

None

Maximum Number of Projects: 2

Diversification and Retention of the Police Work Force

Office of Criminal Justice Assistance and Partnership

International Narcotics and Law Enforcement Affairs

Overview:

Maintaining adequate police staffing and ensuring its diversification is a significant challenge currently facing law enforcement in the United States. Police are confronted by a complicated environment that involves a shrinking pool of applicants and an enlarging, mature workforce progressing towards retirement. Furthermore, law enforcement today struggles to achieve a diverse work force. A study conducted in 2008 women accounted for 11.2% of the total sworn law enforcement in the U.S. With the U.S. population comprised of 50.8% female, the number of women in law enforcement is woefully inadequate. Furthermore, in 2013 a survey showed that the total percentage of minority officers account for 27.3% of sworn law enforcement.

We would like a research team to tackle the issues of recruiting and retaining women and minorities from both a qualitative and quantitative perspective. Research methodology should include samples from federal, state, and local law enforcement agencies, as well as, , comparing and contrasting data from small and large jurisdictions. Key questions to be addressed:

1) What percentage of the force are women and minorities? What are the total numbers of each? What percentage of the applicants are women and minorities? New officers? 2) What are retention rates for police departments today? 3) What is the quality/size of the applicant pool? 4) What is the average tenure of women and minorities in the police departments? 5) What are the language capabilities of these police officers? Are their language capabilities utilized by the force in interacting with the community that they serve?

INL research coordination team can assist the research group as necessary in order to identify points of contact in police agencies and provide a letter of support for the project

Format of Final Project:

Comprehensive report utilizing uncovered data as basis (~25-30 pages) including an excel spreadsheet of all raw data collected and a summary of methodology used.

Potential Areas of Useful Expertise or Interest:

Criminal Justice/Law Enforcement

Comments:

- <http://womenandpolicing.com/pdf/NewAdvantagesReport.pdf>

Maximum Number of Projects: 1

ID: DipLab171748

Vietnam Visa Waiver Value

Economics Office

U.S. Mission to Vietnam

Overview:

General research suggests that visa requirements reduce trade and tourism. Vietnam allows citizens of a limited number of countries to enter visa free for 15-30 days. However, Vietnam requires U.S. citizens to have visas. This project would quantify the likely economic benefits to Vietnam if it would add the United States to its list of citizens traveling visa free.

Format of Final Project:

A research paper of no more than 20 pages providing an estimate of the likely economic impact, and a description of the method used to produce the estimate.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; Statistics

Comments:

The annual report of the 2015 Vietnam Business Forum, available at vbf.org.vn, provides discussion of current visa policy and its impact on tourism in Vietnam.

Maximum Number of Projects: 2

Addiction Treatment Worldwide: Data Should Point the Way on U.S. Foreign Assistance across the Globe

Office of Policy Planning and Coordination, Drug Demand Reduction Team, and the Office of Resource Management, Program Assistance and Evaluation

International Narcotics and Law Enforcement Affairs

Overview:

The mission of the Bureau of International Narcotics and Law Enforcement Affairs (INL) is to minimize the impact of international crime and illegal drugs. INL's Office of Policy Planning and Coordination (INL/PC) is responsible for strategic planning, all public affairs work within the bureau, policy formulation, and engagement with international organizations. PC's Drug Demand Reduction team fosters global public health by promoting access to addiction prevention programs and addiction treatment worldwide. The team leads efforts to develop global standards and norms, in addition to coordinating technical assistance.

INL seeks to maximize foreign assistance investments through data-driven strategic planning. The goal of this project is to collect data on the availability of addiction treatment globally. The data will subsequently be augmented with population estimates and where INL already has an intervention underway to identify underserved areas that would most benefit from U.S. foreign assistance.

The project will collect data on all addiction treatment centers around the world. The team will identify the locations that have been tagged in Google Maps as addiction treatment centers and extract the data from a Google API using a method of their choice, such as Python or R. The data for each treatment center should include the country, province, city, name, address, and contact information.

Format of Final Project:

The final product will be a single spreadsheet, preferably in Excel format, of all the treatment center data stacked by country.

Potential Areas of Useful Expertise or Interest:

Computer Science

Comments:

This is an excellent opportunity for students in computer science or similar fields who want to practice collecting digital data from APIs for social science research, coding in a language of your choice, and creating data-driven policy recommendations. Additionally, the team would benefit from someone with a background in statistics.

We welcome additional data sources other than Google or suggestions for changing the methodology. We

recognize that a single (or even multiple) source(s) will not include a comprehensive picture of all addiction treatment centers globally, but this will at least provide an indicator of availability.

Maximum Number of Projects: 1

Bridging the Digital Gap: From East Timor to the USA

U.S. Embassy Dili, Public Affairs Section

U.S. Mission to Timor-Leste

Overview:

We would like to recruit various U.S. university teams to work with Timor-Leste's 1st American Space/cultural center, Uma Amerika at UNTL (the country's national university) and alumni of U.S. government exchange programs to dramatically increase the amount of information available online in English and Tetum on Timor-Leste/East Timor via the Wikipedia platform.

As one of the world's youngest and most geographically isolated countries, the amount of publicly available information about Timor-Leste (East Timor) is very limited, particularly in English (but also in the country's official languages, Portuguese and Tetum), including on comprehensive online platforms such as Wikipedia (which is free to access in Timor-Leste). At the current time, the largest number of articles in Wikipedia on Timor-Leste are written in German, a language that very few people in Timor-Leste speak or understand. Information about the United States in Tetum is equally minimal. Additionally, there is even less content on U.S.-Timorese relations or U.S. development assistance in Timor in all three languages, despite significant investments in Timor-Leste in the past two decades by USAID, USDA and the Defense Department.

Our aim is to change that equation through this Timorese-U.S. partnership. While the first priority for the teams would be to address the discrepancy of information about the United States and U.S.-Timorese relations, the overall project would have the following goals: Improving the public perception of the United States in Timor-Leste; Increasing connections between Timorese and U.S. universities; Increasing the visibility of the U.S. government assistance in Timor-Leste; Solidify Uma Amerika's reputation in Timor-Leste as an institution devoted to improving U.S.-Timorese ties; and Supporting free access to information in the country.

Format of Final Project:

Deliverable would be new publicly available content and updated content in Wikipedia in the focus areas listed below (in Comments section).

Potential Areas of Useful Expertise or Interest:

International Development; Anthropology

Comments:

This project would allow for teams from a wide variety of academic disciplines, with our key interest being students interested in Timor-Leste, international politics, international development and anthropology. If possible, we would encourage the involvement of Timorese students studying in the United States to work as extra contributors to this project. While not essential, the ideal teams would also

include students with Portuguese, German or Bahasa language skills, in order to help fact check and translate content only currently available in those languages.

The main goal for the U.S. university teams would be to work with the Uma Amerika team to create English-language content on Timor-Leste in key focus areas, as well as assist the Timorese to create Tetum-language content on the United States. Additionally, we envision that both sides of the partnership could eventually work together to correct and update content in Portuguese, Timor-Leste's second official language, as well as other languages, depending on the linguistic capabilities of the respective teams.

Key areas of the interest for the U.S. mission in Dili: East Timor-United States relations + summary of relationship with U.S. on main Timor-Leste page; Foreign Defense relations; U.S. military assistance to Timor-Leste; Mission of U.S. Mercy in Timor-Leste; Foreign aid to East Timor; U.S. government assistance in Timor-Leste; Peace Corps in Timor-Leste; Seabees in Timor-Leste; U.S. Embassy in Timor-Leste; Economy of East Timor; Cooperativa Cafe Timor. Additional areas of interest: United States (Tetum); Uma Amerika at UNTL, UNTL

We foresee that the main portion of the project could be completed in one semester, but envision that there would be space for additional focus areas to be completed if the project would be extended to additional semesters.

Maximum Number of Projects: 1

ID: DipLab171756

Vietnam Quarterly Macro Report

Economic Section

U.S. Mission to Vietnam

Overview:

Produce a quarterly macroeconomic update for Vietnam based on open source information from the Government of Vietnam. The distribution is internal to the U.S. government, but the data is not sensitive, and the team working on the project does not have to generate any data. The ideal team or candidate is someone who understands macro-economic data at a basic level and has an interest in understanding how macro data relates to overall economic performance. Vietnam is a fascinating case study in how to get the macro side right in order to sustain economic growth. The total time commitment per quarter is around 3-5 hours, depending on how fast the one page report can be updated. The person or team who generates the report should be ready to complete the report the first week after the end of each quarter.

Format of Final Project:

1 page Word document

Potential Areas of Useful Expertise or Interest:

Macro Economics

Comments:

None

Maximum Number of Projects: 1

The Economic Effects of Cross-Border Carbon Markets

Political and Economic Affairs Section at U.S. Consulate in Montreal

U.S. Mission to Canada

Overview:

Many analysts believe that the ratification of the Paris Agreement is a sign of the global momentum in the fight against climate change. Across the world, jurisdictions have begun pricing carbon to generate revenues that are often reinvested in the economy. Some jurisdictions, like the province of Quebec and the state of California, have linked carbon-pricing mechanisms in particular an emissions trading system. The goal of this project would be to analyze the economic effects of linking carbon markets across jurisdictions based on the Quebec-California market, and forecasting what would happen if new jurisdictions joined the CA-QC market. What are the economic effects of creating a single large carbon market instead of many smaller isolated markets? How has the Quebec-California carbon market linkage affected the economies of both jurisdictions compared to what separate emissions trading systems would have accomplished?

Quebec launched a carbon market in 2013, which the province later linked with California's carbon market in 2014. The system requires each greenhouse gas emitter to own enough carbon allowances to cover the amount of emissions that the business reported for that year. In the carbon market, there are generally quarterly carbon auctions with participants from Quebec and California, and each business submits confidential offers for carbon allowances to determine the price that clears the market.

Format of Final Project:

Our office would be interested in receiving a research paper with a two page executive summary.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; Political/Military Affairs; Environmental Studies, Business Administration, Finance

Comments:

Our Office: <https://ca.usembassy.gov/embassy-consulates/montreal/sections-offices/>

Maximum Number of Projects: 2

The Effectiveness of Culinary Diplomacy

Public Affairs Section

U.S. Mission to Morocco

Overview:

Governments in countries as diverse as Peru, South Korea and Turkey have recently realized that they have historically neglected one part of their culture when trying to influence other nations' views of them: food. "Culinary diplomacy" or "gastrodiplomacy" has taken off in many countries because -- according to the first metrics -- food is one very effective way of changing other cultures' opinions of a government's own culture.

How effective have gastrodiplomacy campaigns been around the world -- quantitatively and qualitatively? How could the U.S. better harness its agriculture, restaurant sector, and cuisine writ large to make other cultures view the U.S. more positively? Which types of culinary diplomacy activities are the most effective ways of turning public opinion? What is the future of culinary diplomacy worldwide? If possible, how can U.S. Mission Morocco specifically engage with audiences using food to create more cultural allies of the United States?

Format of Final Project:

Research paper incorporating data analysis.

Potential Areas of Useful Expertise or Interest:

Anthropology, food studies, public policy

Comments:

None

Maximum Number of Projects: 4

Knowledge Management to Support African Union Peace Operations

United States Mission to the African Union (Addis Ababa, Ethiopia)

U.S. Mission to Ethiopia

Overview:

The African Union (AU) is one of the largest multilateral organizations outside of the United Nations system. As a Pan-African forum, the AU bridges regional divides through partnerships across its 54 member states and plays a leading role in the prevention, mediation, and management of conflict. The Peace Support Operations Division (PSOD), alternatively referred to as the African Standby Force Continental Planning Element, plans, sustains, monitors, and manages AU peace operations. For PSOD to be more effective, it must improve information sharing and application of best practices and international standards. This project will assist PSOD to develop frameworks to identify lessons learned, and preserve best practices gained from AU engagement with its member states and partners.

Our university partners would help us in the following areas:

I. Development of on knowledge management guidelines for PSOD to leverage the multiplicity of its operational and policy documents in ways that are systematic and accessible to all relevant stakeholders.

II. Creation of a systematic framework for PSOD to consolidate lessons learned and information relevant to the spectrum of peace support operations and policy implementation.

III. Identifying, consolidating, and classifying documents generated by entities outside of PSOD but with relevance to the peace support, such as early warning and situation reports and threat assessments/analysis not currently part of the PSOD information architecture.

IV. Development of an online portal to make all documents critical to achieving PSOD objectives available to all key stakeholders, thus facilitating communication and collaboration.

Format of Final Project:

Online Portal consolidating data from multiple sources

Potential Areas of Useful Expertise or Interest:

Management, Information Technology, International Relations

Comments:

None

Maximum Number of Projects: 1

Model Legislation to Advance Disability Rights across the African Union

United States Mission to the African Union (Addis Ababa, Ethiopia)

U.S. Mission to Ethiopia

Overview:

The African Union (AU) is one of the largest multilateral organizations outside of the United Nations system. As a Pan-African forum, the AU is leading continental integration through partnerships across its 54 member states. However, many voices are left out of this dialogue and development process. Disabled citizens remain disenfranchised while the AU is creating frameworks to support the African renaissance. Member states would benefit by adopting legislation, based on the international best practices, to empower disabled individuals and advance human rights. This project would analyze legislation to advance disability rights and design a model law the African Union could offer as a framework for its member states.

Format of Final Project:

Draft legislation with hyperlinked references

Potential Areas of Useful Expertise or Interest:

Human Rights; International Law; Political/Military Affairs

Comments:

None

Maximum Number of Projects: 1

Song of the Sirens: Effects of New Media on the Recruitment of Peruvian Shepherders

U.S. Embassy, Lima, Consular Section (CONS)

U.S. Mission to Peru

Overview:

Some of Peru's poorest citizens supply nearly 90 percent of the shepherding labor force in the United States. The recruitment processes to find these individuals are rapidly evolving. This project aims to shed light on those processes which help U.S. ranches find laborers for hard-to-fill jobs. Peruvian shepherders are vital to the American sheep and wool industry, and many western U.S. ranches are shutting down due to a lack of workers. The majority of Peru's herders come from tremendously impoverished rural areas, with limited to no access to modern amenities, including the internet. However, most of the information on work opportunities and the applications for visas themselves can only be found online. In a country where only 48 percent of the population aged 36-56 uses the internet, these herders are left to rely upon a relatively small number of sources if they want to find temporary work in the United States. This gap leaves them highly vulnerable to those looking to exploit their lack of knowledge of and access to the proper procedures for working legally the United States. Concordantly, predators and human smugglers charge exorbitant fees to fill out visa applications, or give job recommendations to those who are desperate for work. The negative consequences of these actions invariably fall on the intending laborer.

The purpose of this project is to analyze the recruitment process used by U.S. ranches, how much these strategies rely upon new media, and the methods used by predators and human smugglers to solicit the business of prospective herders. The research will begin with the U.S. ranches, mapping the online avenues they use to find quality workers, and seeing in what form these solicitations take in Peru. The most crucial aspect will determine exactly how Peruvian shepherders find these opportunities. An ideal project will completely detail the steps taken in bringing over migrant workers, from the initial communication of an offer to the acceptance by the herder, and that herder's process of obtaining a visa to come to the United States.

Format of Final Project:

Qualitative investigation and analysis of ranches' recruitment communications; Qualitative investigation and explication of how word is disseminated throughout the shepherding community; Qualitative investigation and report of avenues.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues, Communication, Anthropology, Sociology, Human Migration, Social Justice

Comments:

The rapidity of technological development in the modern world has myriad consequences, one being an increased amount of visa fraud as vendors and human smugglers take advantage of populations unfamiliar

with digital communication. These criminal activities represent the use of technology to further marginalize an already disadvantaged population. To better understand this recruitment process is not just to better understand methods to prevent fraud and human smuggling, but potentially to help in the collective benefit of the bilateral relationship. The results of this project will strengthen Mission Peru's efforts by shedding new light on an important pattern of migration and improving our knowledge of social and economic inclusion. It will also inform policies on how to increase economic growth and social development in Peru's poorest region.

Maximum Number of Projects: 2

Analysis and Recommendation on Training Satisfaction Surveys to Law Enforcement Personnel

Bureau of International Narcotics and Law Enforcement Affairs, INL Mexico

International Narcotics and Law Enforcement Affairs

Overview:

INL Mexico is conducting satisfaction surveys to around 7,000 law enforcement officials per year participating in training events, conferences and study tours. We look for a motivated team of students with experience in psychology, statistics and survey design that could help us review the current survey instrument and propose recommendations to improve it. This survey provides important information to decision makers on security cooperation between the U.S. and Mexico.

Format of Final Project:

20 page research paper, data analysis of 2016 and recommended survey instrument

Potential Areas of Useful Expertise or Interest:

Psychology, statistics, survey design, Spanish

Comments:

None

Maximum Number of Projects: 3

Effective Tools in the Fight against Corruption - Government Digitization

Economic Affairs Section

U.S. Mission to Kenya

Overview:

Many believe the best way to tackle corruption is to simply remove opportunities for corrupt behavior. This analysis and presentation will look at the validity of this line of thought by evaluating if the digitization of government systems, which should effectively limit the amount of cash handled by public employees thus removing opportunities for corrupt practices, is an effective tool in fighting corruption. From online payment of traffic tickets, to online registry of land transactions and public listing of government accounts, government digitization appears to close many of the open doors to corrupt behavior, but is it effective in lowering the corruption profile of a country. Kenya's efforts in digitization present an excellent case study for such research and analysis.

Format of Final Project:

Report with data analysis and presentation

Potential Areas of Useful Expertise or Interest:

Political/Military Affairs; Good Governance, ICT, Computer Systems, International Relations

Comments:

None

Maximum Number of Projects: 2

How Can ASEAN Develop Bankable Projects and Better Access Private Financing?

Office of Multilateral Affairs

East Asian and Pacific Affairs

Overview:

ASEAN countries (Brunei, Burma, Cambodia, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand, and Vietnam) have over 640m people and pressing needs for soft and hard infrastructure development. Nevertheless, ASEAN nations sometimes face challenges in developing bankable infrastructure projects, which in turn creates challenges in attracting financing. While the Asian Infrastructure Investment Bank (AIIB) has filled some of the financing gap, many Southeast Asian countries seek to diversify their partnerships in the economic realm. EAP/MLA seeks concrete advice on

- 1) ways that ASEAN can more effectively develop bankable projects (independently, or with capacity-building support from ASEAN Dialogue partners), and
- 2) ways that ASEAN can better access private financing for hard and soft infrastructure projects; and
- 3) ideas for innovative models or public-private partnerships that the U.S. government could spearhead to increase opportunities for and the competitiveness of U.S. firms.

Format of Final Project:

EAP/MLA would prefer a concise scoping statement followed by a menu of options for both questions 1) and 2) above, ranked in terms of feasibility.

Potential Areas of Useful Expertise or Interest:

Public-Private Partnerships; International Finance, , infrastructure development, U.S. government financing (EXIM, OPIC)

Comments:

None

Maximum Number of Projects: 2

From Base to Boutique Hotel: Host Nation Repurposing of Returned Infrastructure

Political-Economic Section

U.S. Mission to Portugal

Overview:

We would like the group to review case histories of instances in which the United States transferred responsibility and right of use for infrastructure overseas (e.g. after the closing of a U.S. military base or U.S. government facility abroad, etc.) back to the host nation for its repurposing and use. On average, we understand that it takes between 8-12 years for a host nation to repurpose such infrastructure, and we are interested in patterns and trends from examples in which host nations successfully repurposed the infrastructure in a shorter period of time. For example, did more successful cases involve a particular approach by the host nation, such as carving up the infrastructure into several projects in order to achieve early successes? Additionally, we are interested in exploring whether there has ever been a case in which a host nation refused to accept the transfer of U.S. base or government facility infrastructure? How was the situation resolved? Additionally, we would like students to analyze the economic potential of the Azores Autonomous Region of Portugal. Are there industries, projects, or initiatives that might capitalize on the region's unique geography, climate, and location? Are there best practices that the Azores might adopt from other geographically-challenged regions/nations (e.g. Hawaii, Okinawa, Iceland, etc.) that have successfully used their unique attributes to promote economic and commercial growth?

Format of Final Project:

Students will present their findings in a research paper and, if appropriate, in an accompanying presentation highlighting relevant case studies, trends, statistics, and facts.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; International Development; Urban Planning, Geography

Comments:

None

Maximum Number of Projects: 2

When Cruise Control Fails: How to Accelerate Trade After Conflict Brakes It

Bureau of Conflict and Stabilization Operations, Africa Operations

Conflict and Stabilization Operations

Overview:

Trade forms an intrinsic part of livelihoods and social welfare across Africa's arid Sahel. Armed parties across the region have both capitalized upon and destroyed existing trade networks. As major armed conflict subsides, rural population returns will require the re-establishment and strengthening of trade and trade networks to meet immediate community need and revive economic activity. At the same time, illicit trade must be minimized. This project asks you to explore how to restart legitimate trade during low-level intensity conflicts or in fragile-security environments after conflicts, particularly for application in the Sahel. Subject to consultation between the university and our office, the final product, taking into consideration the impact of ethnic relationships on commerce, should synthesize the following:

- Identification of key, relevant examples from the past 30 years of how informal, inter-ethnic trade networks were re-established in post-conflict environments;
- Explanation of how modern Information Communication Technologies can strengthen trade networks and accelerate their establishment/re-establishment after conflict over remote, sparsely populated areas;
- Comparison of how local and/or national governments in Africa have either supported or hampered the recovery of trade networks in post-conflict areas;
- Analysis of how illicit trafficking has been curbed while legitimate trade promoted in post-conflict environments;

Identification of any specific creative projects or organizations that have led efforts in any of the above areas.

Format of Final Project:

A final report (please limit to a maximum of 20 pages) containing a 1-2 page executive summary, a detailed bibliography of relevant sources, and appendixes with visualizations demonstrating findings (e.g. process mapping, network mapping, geographic routes, etc)—with the exception of data heavy tables. The bibliography and appendixes do not count against the 20 pages. The report and conclusions should be presented in person or via video conference to the requesting Bureau.

Potential Areas of Useful Expertise or Interest:

African Studies; International Development; Trade, Social Networks, Behavioral Economics, Ethnic studies, Sub-national Conflicts, Social Psychology, Graphic Design, Anthropology, International Relations, Sociology

Comments:

French or Arabic proficiency a plus. The Bureau of Conflict and Stabilization Operations (CSO) advances the Department of State's understanding of violent conflict through analysis and planning; monitoring, evaluation, and learning; and targeted, in-country efforts that help the U.S. government anticipate, prevent, and respond to conflict and promote long-term stability.

Maximum Number of Projects: 2

The Community is Central: Developing More Effective Community Security Mechanisms for Central Africa

Office of Security Affairs

African Affairs

Overview:

Addressing community concerns will be crucial to creating secure environments in Central African countries that have been destabilized by violence. Getting combatants to renounce violence and give up their weapons is necessary for creating peace, but people who resisted joining armed or violent extremist groups also need to know that they will be protected, and have not missed out on reconstruction resources because they don't have weapons to give up. Likewise, communities must be equipped and empowered to resist the presence of armed groups and spoilers, particularly in areas with little central government presence or provision of services – after all, armed actors can only continue to thrive in communities that tolerate them. The U.S. Government wants to know how to constructively include communities in Disarmament Demobilization and Reintegration (DDR), as well as longer term Security Sector Reform (SSR), programming in Central Africa, based on data from past DDR and SSR efforts.

Many countries in Central Africa could benefit from SSR and DDR support. For this research project we would like to focus on two separate case studies: Central African Republic (CAR) and the Lake Chad Basin (LCB) countries affected by Boko Haram (Cameroon, Chad, Niger, and Nigeria). In CAR, we would like to use the research conducted in this study to improve post-conflict DDR (and longer-term SSR) programming so that communities are empowered to understand, implement, and support peacebuilding and reintegration processes for all conflict-affected individuals, and to build resilience against the prevailing economy of violence in CAR to minimize risk of spoilers seeking to undermine peace processes or reforms. In the LCB countries, communities have been traumatized by Boko Haram and are largely unwilling to accept former fighters, even those who were forcibly recruited, back into their communities. We would like this research to focus on how the U.S. Government could support the LCB governments, through a regional approach, to encourage Boko Haram fighters to defect from the group, while being sensitive to the communities that have suffered through years of the Boko Haram's brutality. Research related to Boko Haram should consider the impact and potential restrictions of working with former combatants of a designated Foreign Terrorist Organization (FTO).

In both cases, we would like research to identify successful models of Community Violence Reduction (CVR) and DDR, which have ideally supported broader SSR over the long-term. Where have CVR and DDR worked and why? What interventions actually increase community security, increase local ownership of national and/or international CVR/DDR programs, and reduce risk of relapse into conflict?

Format of Final Project:

10-15 page research paper with 1-2 page executive summary. Each paper should include up to 10 concise programmatic and/or policy recommendations based on best practices, suggestions and recommended literature (works cited). Final oral presentation (in person or by video conference) is welcome.

Potential Areas of Useful Expertise or Interest:

African Studies; Political/Military Affairs; Social Science, International Studies, Security Studies, Conflict Prevention, Peacebuilding, Research experience

Comments:

None

Maximum Number of Projects: 2

Multilateral Nuclear Stability: Potential Contributions from Game Theory

Office of Verification, Planning, and Outreach

Arms Control, Verification and Compliance

Overview:

The primary objective of this project is to assess the potential of game theory to make significant contributions to analyzing multilateral nuclear stability. Drawing from the lessons learned from the large body of analysis that applied game theory techniques to the bilateral arms race and first-strike balance between the United States and the former Soviet Union during the Cold War, identify promising directions for research using game theory in a multilateral context.

At this juncture, we are not seeking a thorough analysis of multilateral nuclear stability, but to learn the following:

- 1) whether insightful multilateral nuclear stability games are possible,
- 2) to which multilateral strategic stability problems can game theory analysis be applied, and
- 3) which unique set of issues or challenges would need to be addressed in such multilateral games. On a more technical level, how would such a game be validated and how would the results be presented?

In a similar vein, game theory might also prove useful as an analytical tool for understanding motivations that might drive nuclear competition, and therefore help anticipate certain challenging verification and compliance scenarios, as well as identify mechanisms that could deter cheating.

Format of Final Project:

10 page paper

Potential Areas of Useful Expertise or Interest:

Conflict, Stabilization, & Reconstruction; International Relations; Technology

Comments:

Expertise in the following disciplines and skills will be useful: 1) Stability, Deterrence and Reassurance; 2) International Relations and nuclear security policy; 3) Game Theory and Information technology.

Here is some background reading to get the groups started:

J. Scouras, "Multilateral Nuclear Arms Control: Can Game Theory Contribute?," JHU/APL, October 2012D.

McGarvey and J. Scouras, "Multilateral Nuclear Arms Control and Game Theory," JHU/APL, May 2013
The White House Office of the Press Secretary, Remarks by President Barack Obama, Prague, Czech

Republic, 5 April 2009 (http://www.whitehouse.gov/the_press_office/Remarks-By-President-Barack-Obama-In-Prague-As-Delivered)

K. Leyton-Brown, and Y. Shoham, "Game theory is the mathematical study of interaction among independent, self-interested agents," *Essentials of Game Theory: A Concise, Multidisciplinary Introduction*, Morgan and Claypool Publishers, 2008, p. xv

The Nobel Foundation, The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, 2005 (http://www.nobelprize.org/nobel_prizes/economic-sciences/laureates/2005/)

S. J. Brams and D. M. Kilgour, *Game Theory and National Security*, New York; Oxford, UK: Basil Blackwell, Inc., 1988S.

Plous, "The Nuclear Arms Race, Prisoner's Dilemma, or Perceptual Dilemma?" *Journal of Peace Research*, Vol. 20, No. 2, May 1993

R. Hardin, "Unilateral Versus Mutual Disarmament," *Philosophy & Public Affairs*, Vol. 12, No. 3, Summer 1983

C. Nemeth, "A Critical Analysis of Research Utilizing the Prisoner's Dilemma Paradigm for the Study of Bargaining," *Advances in Experimental Social Psychology*, Vol. 6, L. Berkowitz (ed.) New York: Academic Press, 1972, pp. 203–234

Maximum Number of Projects: 3

Inclusive Legislation: Advancing Disability Rights – Regional Survey

MLGA/International Disability Rights

Democracy, Human Rights, and Labor

Overview:

According to the 2011 World Report on Disability, jointly issued by the World Health Organization and the World Bank, the population of persons with disabilities worldwide exceeded 1 billion, accounting for 15% of the global population. Of these, approximately 650 million persons with disabilities live in the Asia-Pacific region. The number of people living with disabilities worldwide continues to grow, along with the aging population.

The Convention on the Rights of Persons with Disabilities (CRPD) and its Optional Protocol was adopted in 2006. As a legally binding international human rights treaty, the CRPD advances the movement from viewing persons with disabilities as “objects” of charity, medical treatment, and social protection towards viewing persons with disabilities as “subjects” with rights, who are capable of claiming those rights and making decisions for their lives based on their free and informed consent as active members of society.

Although over 170 countries have ratified or acceded to the Convention, many countries also need to more effectively implement and enforce the CRPD through domestic legislation. The State Department’s International Disability Rights Team requests university professors and students concerned about human rights to determine which CRPD parties have enacted and effectively enforced laws upholding the rights of persons with disabilities (and which countries have not). This initial research will target two regions and 44 countries: the East Asian and Pacific Region (31 countries) and South and Central Asian Region (13 countries). Research for the report would seek to understand laws, policies and programs on disability, as well as the inclusion of persons with disabilities in other relevant laws, policies and programs.

Format of Final Project:

The final report analyzing the regions’ efforts to promote laws and legal enforcement, and any particularly successful programs, will help the State Department to promote the rights of people with disabilities around the world by highlighting gaps and identifying effective practices that can be scaled up or replicated elsewhere.

Potential Areas of Useful Expertise or Interest:

Democracy & Human Rights; East Asian/Pacific Studies; Global Health; Human Rights; International Law; International Relations; South/Central Asian Studies; Disability Rights

Comments:

The International Disability Rights Team leads the U.S. comprehensive strategy to promote and protect the rights of persons with disabilities internationally. The United States, as part of our foreign policy,

works to remove barriers and create a world in which disabled people enjoy dignity and full inclusion. Discrimination against people with disabilities is not simply unjust; it hinders economic development, limits democracy, and erodes societies.

In pursuing diplomacy that is inclusive and empowering of persons with disabilities, the United States: opposes discrimination against persons with disabilities everywhere and in all its forms; urges foreign governments to combat discrimination, prejudice and abuse against persons with disabilities in their countries, and to protect the rights and ensure the dignity and inclusion of all persons with disabilities on an equal basis with others; encourages and assists governments to learn about the development and effective implementation of laws to protect the rights of persons with disabilities; encourages and assists civil society organizations, including organizations of persons with disabilities and their families, to advocate for the rights of persons with disabilities; and encourages U.S. businesses operating overseas as well as domestic host country businesses to take into consideration persons with disabilities in relation to employment practices and local stakeholder engagement, including in their labor and human rights corporate social responsibility policies, programs, and practices.

Maximum Number of Projects: 5

Digital Storyteller - Social media and blog contributor for international youth networks

Office of Public Engagement

International Information Programs

Overview:

Our office manages the Young African Leaders Initiative (YALI) Network and the Young Leaders of the Americas Initiative (YLAI) Network. These networks are part of the State Department's digital outreach efforts to engage foreign audiences. They are vibrant communities of over half a million young African, Latin American, and Caribbean leaders.

We are looking for student teams who can help us produce creative and innovative multimedia (audio, visual, written) content for engaging YALI and YLAI Network members. Some content may be more generic in nature but we are also looking for teams to research what's trending for young African and young Latin American online users to make sure our content responds to the needs and interests of our audiences. Content will also focus on key U.S. policy priorities for these regions (e.g. human rights, transparency, economic prosperity, security, etc.). The content will be posted on our websites, social media platforms, and other digital platforms as appropriate. This is an opportunity to help the State Department's public engagement be cutting edge and digitally-innovative!

Some examples of requested tasks are:

Social media engagement (currently we are on Facebook, Twitter, and LinkedIn):

- Research and draft social media content relevant to young African and Latin American leaders, highlighting both State Department resources and third party resources they can use to make change in their communities and succeed professionally.
- Review network member submissions about their experiences in the Screendoor and Google Forms platforms and draft social media and blog content highlights.
- Assist with the planning and monitoring of social media chats (Facebook or Twitter) with experts. Assist with follow-up by drafting social media and blog content highlights from the chat.
- Brainstorm ways we can engage network members on social media platforms.

Blog posts and videos:

- Research and draft/film blog posts and videos on policy issues, professional development resources, and other topics.

Graphic design:

- Create engaging graphics for social media and the websites as needed.

Format of Final Project:

Multimedia content (audio, visual, written) to post on the YALI and YLAI Networks website and social media platforms.

Potential Areas of Useful Expertise or Interest:

African Studies; Civil Society; Communications; Democracy & Human Rights; Education & Cultural Studies; Gender Studies; Global Health; Human Rights; International Development; International Relations; Marketing; Public-Private Partnerships; Sociology; Western Hemisphere Studies; Youth Issues

Comments:

We are looking for a creative, proactive students who can help us brainstorm and innovate interesting ways to engage foreign audiences using digital tools.

For YLAI: Spanish preferred but not required

For YALI: French or Portuguese preferred but not required

The project requires the use of Google docs and Slack.

For more information on the YALI Network, visit yali.state.gov.

For more information on the YLAI Network, visit ylai.state.gov.

Maximum Number of Projects: 2

International Efforts in Worksite Health Promotion

Occupational Health/Wellness

Medical Services

Overview:

We would like to explore how multi-national and national companies promote health both within their organization and throughout the community(s) in which they are involved. How can the Dept of State build relationships with these companies to improve our own efforts with wellness programs, innovations, and initiatives at our international posts.

Format of Final Project:

Research paper or data analysis of what is out there...what are multi-national companies doing in regard to worksite health promotion to improve the health and wellness of their employees AND the communities with which they could have an impact... are they involved with the State Department Posts in their country of operation? If so, how? If not, why not? Have they formed partnerships with the State Department to improve the health and wellness of the community around the Post?

Potential Areas of Useful Expertise or Interest:

Education & Cultural Studies; Food Security; Global Health; International Relations; Public-Private Partnerships; Health Promotion

Comments:

I realize that this is probably a new, and rather unique area of study. The International Assn of Worksite Health Promotion is planning to conduct a global conference about this subject in the Spring of 2018. It would be an opportunity for the information found by this project to be presented there...

Maximum Number of Projects: 10

Improving PD Messaging

Cultural Affairs Section

U.S. Mission to Guatemala

Overview:

How can Public Diplomacy (PD) messaging effectively counter reality of migration (positive impact of remittances, stories of success, anything is better than the life I have now)? How to reach youth and parents in agricultural communities?

The messaging from PD has focused on the dangers people will face on the road from Guatemala to the U.S. and how it has been quite destructive for people as well as for their local communities. The personal dangers range from losing significant amounts of money to death itself. Communities lose their labor force and cultural integrity. However this message is weakened by the many signs of wealth that come from remittances such as multiple story houses and brand new vehicles that show up in the most remote villages. People are receptive to the message of the dangers of travel since they know someone who has not made it across, but they see those who have as fortunate and prosperous stories that make the risk worth the while.

One of the challenge PD faces in countries like Guatemala is how to optimize the message we are sending without losing credibility on the face of construction work and other luxuries that motivate locals to migrate. How do we improve our reach of youth and parents in agricultural communities?

Format of Final Project:

4-page options memo

Potential Areas of Useful Expertise or Interest:

International Relations

Comments:

You may compare data from Mexico, El Salvador and Honduras to make suggestions of success stories and lessons learnt.

Maximum Number of Projects: 5

DPU: Diplomacy Processing Unit

Office of Global Partnerships

Secretary of State

Overview:

Despite the innovative nature of the Diplomacy Lab program, we're stuck in the past when it comes to the technology used to manage the partnership. Right now, an unnecessarily complicated web of Word Docs, Excel Sheets, and cluttered inboxes are used to manage project proposals, facilitate the bidding process, and oversee the projects in motion.

We're hoping to streamline the entire process by building a platform where State Department offices can submit projects and DipLab partner institutions can review these proposals, bid on them, and track their progress throughout the semester. Rather than work with an outside organization to build this platform, we'd like to work with a team of computer science students to get this up and running.

We don't plan to be prescriptive about the platform - we want to collaborate with you to come up with something that will be useful to all parties involved.

Format of Final Project:

Prototype of new Diplomacy Lab platform.

Potential Areas of Useful Expertise or Interest:

Computer Science

Comments:

N/A

Maximum Number of Projects: 1

Can You See Me Now? – Identifying Camera Problems Autonomously

DS/STO/QAL

Diplomatic Security

Overview:

Over 300 U.S. diplomatic buildings in almost every nation in the world rely on closed-circuit television systems (CCTV) as part of their physical security apparatus. Many video cameras are installed outdoors in harsh conditions of sand, sun, and salt spray and suffer from a range of maladies.

Dust, dirt, salt, lichen, and atmospheric pollution on the camera bubble degrade the quality of an image. A camera that is out of focus suffers a similar loss in quality. A broken camera may not produce an image at all. Pan, tilt, and zoom (PTZ) functions may not function. Over time, foliage can grow to block key parts of a camera view. Each of these situations degrades our ability to protect the people who work at and visit our diplomatic facilities.

Since dirty camera bubbles are the biggest problems, proposals must address this issue at a minimum. Teams can choose to address problems of focus, foliage, missing images, and PTZ functionality, as desired. Teams can also choose to use analog cameras, digital cameras, or both. If requested in the proposals, ST may loan the actual cameras and control systems that we use. Since we are looking for autonomous problem detection, the outcome must notify a person who is sitting at a computer. This could be done through email, SNMP trap or table, or any other method teams come up with.

Format of Final Project:

Teams can choose how they will communicate the results of their research. Keep in mind that the project's sponsor only has about 15 minutes to dedicate to understanding your efforts, as she has several solutions to review. You can provide an in-person demonstration -- recorded on video -- write a short paper, provide a dissertation with an executive summary, or come up with your own way of presenting your results. You must both communicate your results and document your project well enough that someone else can reproduce it.

Potential Areas of Useful Expertise or Interest:

Science and Technology

Comments:

For proposal purposes, teams can plan for Samsung SNP-6320H cameras for IP-based systems and SCP-2373 for analog. Both of these are capable of pan, tilt, and zoom; teams can use these features or not. Proposals can request additional hardware to build a system. When a proposal is accepted, ST will provide current hardware from our stock, which may differ from what is requested.

Maximum Number of Projects: 3

Road Well Traveled: History of U.S Economic Sanctions on Nicaragua since 1979

Economic Section

U.S. Mission to Nicaragua

Overview:

U.S. Embassy Managua requests a catalogue and description of U.S. economic restrictions against Nicaragua since 1979. These will primarily be economic sanctions, but could also include other restrictions such as limitations of the sale of U.S. military equipment to Nicaragua. Since 1979 with the fall of the Somoza dictatorship and the rise of the Sandinista party (FSLN) headed then and now by Daniel Ortega, the United States has frequently turned to economic sanctions or other restrictions to attempt to influence Nicaraguan decisions. Some of the actions since 1979 include the trade embargo of 1985, the 1994 FRAA Section 527 which threatened the elimination of bilateral assistance programs unless the Secretary of State issued a waiver stating that Nicaragua was compensating American citizens for expropriated property, and the Fiscal Transparency law which resulted in US assistance being restricted in FY2011 and FY2012, the elimination of the Millennium Challenge Corporation (MCC) compact due to concerns about Nicaragua's presidential and municipal elections, and other actions. Since the resolution of the last 1994 FRAA Section 527 case in August 2015, there have been no active sanctions program directed at Nicaragua. However, this may change with the National Defense Authorization Act for Fiscal Year 2017 (PL 114-328) signed in December 2016 which include sections 1261 to 1265 related to the Global Magnitsky Human Rights Accountability Act, the Consolidated Appropriations Act of 2017 (PL 115-31) signed in May 2017 which include Section 7070 provisions related to Georgia and Crimea, and with the pending NICA Act (H.R. 1918 and S.972) which is directed at Nicaragua. The project will inform US government officials about the history of our economic restrictions against Nicaragua which will influence ongoing engagement with Nicaragua.

Format of Final Project:

Information about the beginning, end, scope, and (if possible) impact of the restriction would be helpful, including links to public (open source) information about those restrictions, such as links to U.S. legislation or regulations. This should take the form of an easy reference chart with the key information followed by a report with additional details of the actions.

Potential Areas of Useful Expertise or Interest:

Economic Sanctions; International Relations; Western Hemisphere Studies

Comments:

Thanks and we look forward to working with you!

Maximum Number of Projects: 1

Building Automation Systems (BAS) Secure Envelopment Study

Cyber and Technology Security Directorate/Office of Technology Innovation and Engineering/Facility Technologies Division

Diplomatic Security

Overview:

Current technical solution sets for the securing and monitoring of dissimilar Building Automation Systems (BAS) and related Industrial Control Systems (ICS - i.e.: Embassy power, water, and waste processing plants) are lacking scientific study and research to improve these systems' secure operations. Often, each BAS/ICS has an operating system with differing levels of configurable security parameters (which must be assumed weak) used to fend off cyber-attacks; these systems also have sparse/non-existent remote off-site connectivity.

This project seeks solutions that addresses networking access, prevents cyber intrusions and manipulation of BAS/ICS, and that can be used across any system. The study should focus on innovations and possible scientific research models that could be applied to this long standing security risk set. The study must include cost effective and simple to implement processes and/or hardware solution sets.

Format of Final Project:

Final products can be presented in the following formats: scientific results study, recommended solutions sets, or possible beta hardware/software solution feasibility testing/results

Potential Areas of Useful Expertise or Interest:

Science and Technology

Comments:

This project must be field implementable in harsh overseas environments where stable power and network-internet connectivity are not always reliable and bandwidth is limited.

Maximum Number of Projects: 5

Survival after LDC Graduation: Cabo Verde's Long Fight for Sustainability

Political/ Economic Affairs Section

U.S. Mission to Cabo Verde

Overview:

Thanks in part to a locally peaceful transition from colony to independent country in 1975 and an educated and capable workforce, Cabo Verde graduated from the World Bank's list of least developed countries (LDC) in 2007. It is one of only four countries (Botswana, Maldives, and Samoa) to do so. While the development that leads a country to graduation is clearly beneficial, the loss of LDC status at graduation may result in important economic costs due to the loss of access to the International Support Measures (ISM) such as bilateral development assistance and technical assistance.

Cabo Verde remains heavily dependent on external financing such as official development assistance and remittances. While graduation may indicate greater resilience and/or reduced exposure to structural vulnerabilities, Cabo Verde remains particularly vulnerable to exogenous shocks. Moreover, the loss of eligibility for Special and Differential Treatment (SDT) provisions resulting from the graduation process has narrowed the policy space available to address these challenges. As a result indebtedness has increased substantially and debt has tripled, accelerating the increasing trend of the previous decade, to reach 128% of GDP in 2016. This partly reflects increased expenditure for compensating for the effects of the international financial crisis and the loss of donor aid. Cabo Verde runs structural current account deficits and relies heavily on external finance to support its capital accumulation.

Cabo Verde is a small archipelago with minimal natural resources and a population of only 550,000. At least as many Cabo Verdeans live in the diaspora, mostly in Portugal and the Boston area. There was no indigenous population when the Portuguese colonized in the 15th century. The climate is arid, and only around 10% of the land is arable. It enjoys a stable economy with the escudo pegged to the euro and a stable democratic government. Approximately 25% of Cabo Verde's GDP comes from tourism, mostly Europeans coming for the beaches. Another 15% comes from family remittances. Cabo Verde will be the first country in the world to complete its second Millennium Challenge Corporation (MCC) Compact. Although the country has advanced remarkably on the development trajectory, it suffers from a number of serious problems. Growth is estimated at over 4% in 2016, a recovery from 1.5% in 2015, but that is not enough to bring down the debt (128% in 2016). For 2017 and beyond, debt is likely to continue increasing from government liabilities for largely insolvent state-owned enterprises. Official figures put unemployment at 15%, and most observers believe that youth unemployment is close to 40%. Nearly 30% of the population lives in poverty.

Consolidating its achievements as a middle income country and strengthening the conditions for poverty reduction and shared prosperity will be key challenges for Cabo Verde. Given the strengths and weaknesses, what strategy can the country develop to overcome the debt issue and lack of financing?

Format of Final Project:

Strategy paper with actions and actors identified

Potential Areas of Useful Expertise or Interest:

African Studies; Economic & Finance Issues; International Relations; International Finance

Comments:

This question is, clearly, broader than Cabo Verde.

Maximum Number of Projects: 4

Defining IoTs and Their Secure Operation

Cyber and Technology Security Directorate/Office of Technology Innovation and Engineering/Facilities
Technology Division

Diplomatic Security

Overview:

The scientific description and constitution of an Internet of Things (IoT) device are not well defined for the U.S. Government (USG). Without definition, the transmissions and connectivity of such devices cannot be properly secured. Currently the only published standards to improve upon this realm of pervasive computing is published by Underwriters Lab (UL2900-1,2).

The primary goal of this project is to define in simplified language what constitutes an IoT device in the government realm (not a straight forward issue). The second goal is to determine what scientific research and current solution sets (in combination) can be used to detect, segregate, and protect from compromise rogue and legitimate IoT devices on Department of State wireless networks. The solution set must be scalable across the world, back feed into a dB crawling tool (e.g., Splunk dB) to provide detection and after-the-fact forensics, and not be cost prohibitive. The third goal is to define IoT network characteristics that can be keyed in a dB crawling tool (e.g. Splunk) to provide insight and detectability of IoT connectivity and creative location correlation methodologies. The fourth and final goal is to research/develop low cost methods/field tools to perform spot checks and detect IoT presence, log characteristics, and determine IoT type (refrigerator, coffee maker, LED light etc.) within a building, office suite, and/or single room. The method/tool needs to have a small form factor so as to be easily transportable by a single individual.

Format of Final Project:

Information report outlining solutions to the four parts of this project, review of current IoT security standards – which are best for State Department adoption, testing results for the research/proof of concept for 1) dB detection characteristics and 2) the low cost IoT discovery method/tool.

Potential Areas of Useful Expertise or Interest:

Science and Technology;

Comments:

N/A

Maximum Number of Projects: 5

Foreign Investment in Czech Republic/Czech Investment in the United States

Political and Economic Section

U.S. Mission to Czech Republic

Overview:

Embassy Prague is requesting help in researching Czech investment in the United States and U.S investment in the Czech Republic. Our new Ambassador Designate Stephen King has said that promoting these two types of investments will be one of his top priorities. Team 1: Embassy Prague would like help assessing the impact of American foreign Direct Investment in the Czech Republic. Unfortunately, the Czech government only keeps figures on business deals that involve Czech Investment, their economic development arm. We would need someone to take these figures and utilize other open source materials to gather an accurate assessment. We would also ask them to compare this to Chinese and Russian investment in the country. The Czech government has made it a priority to attract investment from both Beijing and Moscow. Team 2: The other team would be tasked with looking at Czech investment in the United States. The Czech economy has matured over the last 25 years and companies are now looking for new opportunities outside the country and the European Union. Right now, the number of investors in the United States is quite small. However, we expect this number to grow over the next few years. We would like them to look at who is investing, what the impact has been on the United States, and help conceptualize what we can do to increase Czech investment in the United States.

Format of Final Project:

Final products would be a short port. Details would be discussed with the team.

Potential Areas of Useful Expertise or Interest:

European & Eurasian Studies; International Development; International Relations

Comments:

Thanks!

Maximum Number of Projects: 2

The Impact of English on Violent Extremism

Regional English Language Office for Central and East Africa

U.S. Mission to Tanzania

Overview:

The U.S. State Department's Office of English Language Programs, through its Regional English Language Offices (RELOs) and U.S. Missions around the world, offers after-school English classes to at-risk youth in over 80 countries as a means of introducing U.S. culture, fostering mutual understanding between these host country nationals and Americans, and enhancing eligibility for educational and employment opportunities. Many of these English Access Microscholarship classes are Muslim-majority. Other English language learning programs, including English for imam classes and English/book clubs, are offered to Muslim populations as a way of promoting interfaith dialogue and tolerance. While it can be relatively easy to assess language progress in these programs, measuring changes in attitudes and behaviors—such as radicalization and participation in violent extremist activities—poses greater challenges. While there has been a good amount of research conducted on the correlation between education and radicalization, there is little exploring the effectiveness of language programs in countering violent extremism, one of the department's predominant foreign policy goals. We propose a project that explores this relationship. Is there any evidence that programs advancing language and cultural proficiency can have a tempering effect on radicalization and violent extremism? What realistic ways of measuring changes in attitudes and behaviors of participants in the aforementioned programs are available? Are there successful examples of language/cultural programs from other countries being used to counter violent extremism? Which language and cultural content is most likely to lead to changes (i.e., foster empathy, develop tolerance, build resilience to extremism)? What factors made them successful? Are there successful examples of virtual or online language/cultural programs or exchanges aimed at preventing online radicalization? Are some marginalized populations, such as girls, refugees and internally displaced persons, more likely to benefit from such programs than others? The answers to these questions and more can help inform and shape the development of the department's language and cultural programs—its soft power—so as to be more effective in addressing one of the most prominent issues it faces: Radicalization and violent extremism.

Format of Final Project:

The ideal deliverable is a 20-25 page research paper.

Potential Areas of Useful Expertise or Interest:

Counter Terrorism; Education & Cultural Studies; English Language Learning

Comments:

Office of English Language Programs: <https://eca.state.gov/about-bureau/organizational-structure/office-english-language-programs>

Regional English Language Office for Central and East Africa: <https://tz.usembassy.gov/education-culture/regional-english-language-office/>

Access Program: <https://exchanges.state.gov/non-us/program/english-access-microscholarship-program>

Maximum Number of Projects: 1

Reengaging: Romanian-American Jurists in Diaspora

Public Affairs Section

U.S. Mission to Romania

Overview:

PAS Bucharest proposes that students create a database of first and second generation Romanians in the United States that work in the judicial system (e.g., judges and others involved in the administration of justice - prosecutors, public defenders, cops, justice-focused civil activists, probation officers, private trial attorneys, corrections officers etc.). The purpose of identifying these professionals is to create a line of communication for potential future partnerships and prospective speakers. These Romanian-Americans have the potential of supporting efforts to strengthen the rule of law in Romania, increase international cooperation.

Format of Final Project:

Public Diplomacy is looking for a data base to draw contacts and their information from. We hope it will include contact information and a detailed bio. In the bio we would like each contact's background, involvement in the judicial system, current ties to Romania, personal experience in diaspora, etc.)

Potential Areas of Useful Expertise or Interest:

International Law; International Relations; Diaspora

Comments:

Firstly, thank you for choosing to work on our project. We are truly grateful to have your help with this project.

To get you started, please see the first link to an article on Romanian-Americans. The second, is from Embassy Bucharest's website and is about the U.S. Romanian strategic partnership. We look forward to working together!

<http://www.everyculture.com/multi/Pa-Sp/Romanian-Americans.html>

<https://ro.usembassy.gov/20-years-strategic-partnership/>

Maximum Number of Projects: 3

Retirement from the Somali National Army: What would a pension program look like?

Office of Security Affairs

African Affairs

Overview:

How do Somalis establish their identity with regard to conflict? How do different entities, such as the Somali National Army (SNA), the Federal Member State (FMS) forces, and al-Shabaab, forge their sense of duty as custodians of what it means to be ‘Somali,’ and what happens to that identity when fighting stops? How can the SNA and the FMS’ transition their security actors in a manner that maintains their commitment to a social compact? What does it mean for security actors to ‘retire’ in Somali society writ large?

Format of Final Project:

Resultant analysis should be a 5000 word paper that 1) cites key case studies of military pension programs around the globe that would be relevant for consideration of lessons learned/best practices for Somalia, 2) includes key findings, and 3) recommends U.S. policy and/or foreign assistance programming that could help Somalia provide an appropriate off-ramp for aging members of its military force.

Potential Areas of Useful Expertise or Interest:

African Studies; Anthropology; Arms Control/Non-proliferation; Conflict, Stabilization, & Reconstruction; Counter Terrorism; International Relations; Political/Military Affairs; Sociology; Statistics

Comments:

The Bureau of African Affairs, Office of Security Affairs (AF/SA) has a draft paper with some case studies for review by chosen Diplomacy Lab team.

Maximum Number of Projects: 2

Western Balkans: Understanding the Role of Muslim Ideologies and Actors in Promoting and Combatting Violent Extremism

The Coordinator of U.S. Assistance to Europe and Eurasia

European and Eurasian Affairs

Overview:

1) Western Balkans and South Caucasus: Understanding the Role of Muslim Ideologies and Actors in Promoting and Combatting Violent Extremism (Smith)

Goal: Explore the role of particular interpretations of Islam and Islamic ideology and various religious actors in radicalization and recruitment to violent extremism, as well as preventing and countering violent extremism, in the Western Balkans or South Caucasus regions. Provide concrete recommendations for how research on actors and ideologies can be used to design or improve the effectiveness of public diplomacy and outreach programs; community dialogue, social inclusion, and minority rights programs; leadership training and exchange programs; and other initiatives to counter and prevent violent extremism.

Description:

- Compare the role of Albanian-speaking, violent extremist figures online and on the ground with the role of longer-standing ethnic/communitarian conflict/tensions in Bosnia, Albania, Macedonia, and other Western Balkans countries, or in Azerbaijan, Georgia, and surrounding areas.
- What efforts are official and unofficial religious communities on the ground taking to counter violent extremism, and how effective are these efforts? What effects do external influences, for example textbooks and proselytization originating outside the region, have on violent extremism?

Note: This project requires Albanian language proficiency (Western Balkans) and may require Azerbaijani, Russian, Turkish or Farsi language proficiency (South Caucasus) among at least some research team members.

Format of Final Project:

Research paper (app. 20 pages) and options memo (app. 3 pages), other deliverables as appropriate

Potential Areas of Useful Expertise or Interest:

Counter Terrorism; European & Eurasian Studies; International Relations

Comments:

This project requires Albanian language proficiency (Western Balkans) and may require Azerbaijani, Russian, Turkish or Farsi language proficiency (South Caucasus) among at least some research team members.

Maximum Number of Projects: 2

ID: DipLab1726125

German Youth Social Media Opinions

Public Affairs Section, U.S. Consulate Munich

U.S. Mission to Germany

Overview:

What aspects of the German-American relationship positively resonate most in the minds of German youth as related to social media? What can we message to those positive thoughts and what social media format would be best to message and expand that messaging.

Format of Final Project:

Data analysis or presentation or options memo

Potential Areas of Useful Expertise or Interest:

Communications; International Relations; Marketing; social media;

Comments:

Thank You!

Maximum Number of Projects: 2

Assessing CT/CVE Strategies in the G5 Sahel

Public Affairs

U.S. Mission to Burkina Faso

Overview:

The research project would entail conducting a comparative study of the different countering terrorism and countering violent extremism (CT/CTE) policies and strategies in the G5 Sahel countries (comprising Burkina Faso, Mali, Mauritania, Niger, and Chad), highlighting those with the most successful results, and those with perhaps less than purposeful results.

The conclusions would then make specific policy recommendations for the Burkina Faso Government for the purpose of CT/CVE efforts based on best practices and lessons learned from countries in similar situations. The project could include a specific focus on how some vulnerable communities and ethnic groups need the Burkinabe government to pay closer attention, and also include an assessment of whether adding targeted deradicalization and rehabilitation programs as part of broader counterterrorism and counter radicalization strategies could limit recidivism.

Format of Final Project:

20 page research paper that includes recommendations on actions as well as data analysis (where data and/or statistics are available).

Potential Areas of Useful Expertise or Interest:

International Relations

Comments:

Embassy Ouagadougou works as a team in our CVE Working Group which includes DoD, Political and Public Diplomacy. We have a number of Public Diplomacy grants targeting civil society in Burkina Faso, especially areas that are off limits to Americans due to security concerns.

This project could take more than 4 months, depending on how in-depth the students do research.

Maximum Number of Projects: 1

Chinese Investment in Europe

Policy and Global Issues

European and Eurasian Affairs

Overview:

In order to understand the nature of Chinese investment in Europe it would be worthwhile to gather data tailored to answer the questions cited below.

- 1) What are the 15 year trends and forecasts of Chinese investment and trade broken down by sector and country in Europe? How does the investment and trade data compare with stated goals in prior CPC 5-year plans (11th-13th)?
- 2) What are the sub-regional trends and forecasts for Chinese investment in Europe (e.g. EU, Central, South Central, and Eastern European Countries, Eurozone, and former U.S.S.R)
- 3) What is the nature of Chinese motivations/decision-making process in these investments (i.e. are decisions based on private sector/profit motivation or government-directed strategic goals?)
- 4) What is the nature of Chinese participation and leadership in multilateral economic fora (e.g. World Trade Organization, World Intellectual Property Organization) and how does it affect Europe, the EU, and existing regional architectures?
- 5) How influential are Chinese investments with European regional politics? Is there any correlation with investments and whether a European country has acted more favorable to Chinese policies, such as voting on a certain issues?

Format of Final Project:

Please present the information with these four elements:

- As a 20-50 page research paper
- Graphics to illustrate important points
- Data analysis
- In the form of a presentation synthesizing the major finding.

Potential Areas of Useful Expertise or Interest:

Cyber Security; East Asian/Pacific Studies; Economic & Finance Issues; Energy Security; European & Eurasian Studies; Information & Communication Technology; International Development; International Law; International Relations; Marketing; Oceans; Public-Private Partnerships; Science and Technology; Statistics; Water Security; Business, Finance, and Investment

Comments:

Please include detailed information on the resources upon which the research is based.

Maximum Number of Projects: 5

Commercial Diplomacy: Better Partnerships with U.S. Industry to Organize against Unfair Commercial Advantages

Economic Section

U.S. Mission to Uruguay

Overview:

Objective:

The Embassy's objective of this proposal is to engage DiplomacyLab resources to assist the Embassy in developing locally relevant strategies with practicable approaches to help U.S. commercial interests effectively compete with foreign competitors.

Overview:

The global market place has undergone fundamental changes this century already. Competitor governments in Europe and Asia have enhanced their efforts to engage worldwide foreign markets commercially. In many cases, foreign competitor companies are backed by significant resources and political commitments of their home governments or are in fact state-owned enterprises. The United States Government is working from a different playbook and cannot advocate on behalf of or represent specific business interests directly – U.S. businesses often do not have the same level of government support and/or sponsorship enjoyed by their foreign competitors. New approaches to commercial diplomacy are needed now more than ever for U.S. commercial interests to remain competitive.

The Embassy has identified three priority economic policy objectives:

1. Promote commerce - partner with Uruguayans in the business, economic and political sectors to promote U.S. commercial activities & trade;
2. Support entrepreneurship - bolster support of women's entrepreneurship; and,
3. Support education and work skills - build interest in 21st century education, knowledge, and skills for greater likelihood of personal advancement and access to international opportunities.

These three policy objectives have great potential for commercial partnerships. The Embassy already makes ample use of the prescriptive, global Department of State and Department of Commerce programs and resources to support U.S. business interests in Uruguay (ref: Department of Commerce, Department of State). However, the Embassy is seeking approaches that take into account local U.S. firms and resources and the socio-economic and political dynamics of Uruguay.

(Key words: international business, business value, commercial diplomacy, public private partnerships, corporate social responsibility, commercial advocacy, national competitiveness.)

Format of Final Project:

The final product format should be a memo or white paper (no more than 10 pages) that provides an executive summary with recommendations for enhanced commercial engagement given the limitations of locally operating U.S. companies and the U.S. Embassy. The final product must not only take into thorough account existing commercial advocacy strategies and tools publicly advertised by the U.S. State

Department and the Department of Commerce, but also consider the local cultural, business, and political context in South America.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; International Relations; International Business and Commerce

Comments:

Potential Areas of Useful Expertise or Interest:

The Embassy is interested in, but not restricted to, identifying potential collaborations with locally operating U.S. business entities in two ways to promote U.S. commercial interests in Uruguay:

- 1) Enhance corporate social responsibility (CSR) efforts; and/or,
- 2) Serve as a catalyst for robust public-private partnerships.

Areas of research may also focus on best practices published by U.S. firms in Latin America; it is critical to identify and consider U.S. business value propositions. Relevant business sectors in Uruguay include agriculture, information and communications technology, and energy (renewables) and electric transport. Other sectors may include public health and education, among others.

Relevant Commercial Diplomacy Background:

Corporate Social Responsibility (CSR): The Embassy last surveyed all 120 U.S. companies in Uruguay regarding private CSR initiatives in 2015. Thirty-seven companies responded of which twenty-six had active CSR activities. The goal of the survey was to identify collaborative opportunities for Embassy engagement. While all of the companies expressed interest in working with the Embassy at the time, the Embassy did not identify or engage in any collaborative activities.

Public Private Partnerships and Trade Missions: Several European Governments have Government-to-Government MOUs for infrastructure projects in Uruguay – the United States does not. Several European Governments also sponsored reverse “trade-missions” sending Uruguayan interests to the EU] to showcase EU products that could be used in Uruguayan public tenders. While the Trade and Development Agency (TDA) funded such reverse trade missions to the United States in the past, they were not intended for a specific opportunity or project. Also, because of Uruguay’s “high income” status, the TDA no longer operates in Uruguay.

Comments:

Although commercial diplomacy as such is not new, research on commercial diplomacy is a relatively recent phenomenon – the direct causal relationship between diplomatic representations abroad and trade volumes is unclear. However, a popular definition states that:

“Commercial diplomacy is the application of tools of diplomacy to help bring out specific commercial gains through promoting exports, attracting inward investment, and preserving outward investment opportunities, and encouraging the benefits of technological transfer.”

Commercial diplomacy is often conflated with economic diplomacy and other types of diplomacy such as trade diplomacy and financial diplomacy. While economic diplomacy is concerned with general

economic policy issues and trade agreements, commercial diplomacy is much more specific – “business support” may be the most concise, common term in use.

Maximum Number of Projects: 1

Modeling the Market for Chilean Lithium

Economic-Political Section

U.S. Mission to Chile

Overview:

Chile has the world's largest reserves of lithium, but has traditionally fallen behind other countries in its pace of extraction due to extensive regulatory requirements. Chilean policymakers have grown increasingly cognizant of rising global demand for lithium, and in January 2016 the Government of Chile (GOC) published a new national policy for the development of Chile's untapped lithium reserves. Under the new policy, the government relies on public-private partnership concessions to exploit untapped lithium reserves aggressively and has pursued exclusive supply agreements with international companies such as U.S. automaker Tesla. It has also sought to incentivize research and development and other value-added activities related to lithium in Chile via a 2017 tender opportunity in which the company with the winning bid would have guaranteed access to a continuous supply of Chilean lithium at preferential prices, provided the company develops capacities in Chile to produce lithium value added products and uses the preferentially priced lithium as an input in the production process. International companies, including those from the United States, have submitted their bids.

Some industry experts have approached Chile's newfound eagerness to capitalize on its lithium wealth with skepticism, noting that the political excitement about lithium as the "next big thing" and source of economic development may have run ahead of level-headed analyses of all the inherent risks involved in projecting the growth in the global lithium market. Embassy Santiago proposes that Diplomacy Lab team(s) develop a quantitative model for the Chilean lithium industry. Specifically, we are interested in sensitivity analyses to evaluate how responsive the model is to demand-side and supply-side risk factors and assumptions. On the demand side, key factors include the development of the electric car industry. On the supply side, the analysis should incorporate geological factors. We are particularly interested in how sensitive demand for Chilean lithium is to Chilean regulatory policies and price incentives.

Format of Final Project:

We would appreciate a detailed research paper as well as a PowerPoint presentation summarizing the university team(s)' research methodology and key findings. We would also appreciate access to the datasets and models developed by the research team(s).

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; Energy Security; Geography; International Relations; Public-Private Partnerships; Science and Technology; Statistics; Mining Engineering, Industrial Engineering

Comments:

Chilean government proposal for development of value added lithium projects:
<https://lbttest.corfo.cl/sites/cpp/convocatorialitioen.jsessionid=8SYEambEnWi->

2N23dyVeySiZWsm22sBpbf5XcXjdITN0OfRjJGrn!1478186680?resolvetemplatefordevice=true

American Chamber of Commerce report on the Chilean lithium industry:

<https://www.amchamchile.cl/en/2017/04/litio-el-desafio-de-generar-una-nueva-industria-2/>

Maximum Number of Projects: 3

Women's Roles in Countering Violent Extremism

Office of Global Women's Issues

Secretary of State

Overview:

We seek to better understand the roles women play in countering violent extremism, and in perpetrating it. While there is a growing research on the pathways to radicalization among violent extremists, research gaps persist with regard to gender dimensions of radicalization and the foreign terrorist fighter (FTF) phenomenon. The pathways to radicalization are unique for every individual, men and women alike, and no single research initiative can solve questions related to the radicalization cycle of violent extremists. There is nevertheless limited analysis of drivers of violence for women at individual levels. Further, there is limited research on the structural conditions in FTF source countries—and whether that may contribute to the circumstances that led to radicalization to violence.

This research project could explore any of the following issues:

- (1) rates of gender in/equality and incidence of violent extremism (either VE in a specific country context or looking at rates of foreign fighter flows)
- (2) role of women in law enforcement in addressing CVE objectives and outcomes (in the US or globally)
- (3) questions around the importance of women and/or gender perspectives in stabilization (policy provenance is informing how we look toward stabilization activities in West Africa, Syria, and Iraq).

Format of Final Project:

We are comfortable with a final report (no longer than 10 pages) and any corresponding annexes as appropriate.

Potential Areas of Useful Expertise or Interest:

Conflict, Stabilization, & Reconstruction; Counter Terrorism; Democracy & Human Rights; Gender Studies; Human Rights; International Relations; Statistics; Trafficking in Persons; Youth Issues

Comments:

N/A

Maximum Number of Projects: 2

Examination of the Department of State's Diplomacy Center Simulations

Executive Office

Public Affairs

Overview:

Background Information: The U.S. Diplomacy Center (USDC) aims to highlight, inform, explain, and clarify the role of U.S. diplomacy. In September of 2014, USDC's groundbreaking ceremony celebrated the establishment of a physical space dedicated to helping our nation's citizens better understand and appreciate the tremendous impact of American diplomacy. USDC maintains digital platforms to educate the American public about U.S. diplomacy through educational outreach programs, diplomacy simulations, and teacher trainings designed to form strategic partnerships with affinity groups to build more awareness.

USDC's educational programs offer several different diplomacy simulations in which students and teachers engage on critical global issues faced by U.S. diplomats. In 2016, USDC conducted 250 diplomacy simulations that covered substantive themes related to the environment, refugees, arms control, and public health. For each simulation, the Center's goal is for students to gain an understanding of the practice of diplomacy, exercise critical thinking and negotiation skills, and be inspired to learn more.

USDC measures levels of performance by monitoring group discussion and dynamics during a simulation. Using surveys, students and teachers can provide anonymous feedback based on their learning experiences. Then, the performance data is used to inform the design of future diplomacy simulation scenarios and materials. The goal is to constantly refine educational practices for the most effective outcome(s).

Project Description: To further examine the operational proficiency of USDC's simulations, the proposed examination is designed to further explore the overall efficiency of the simulations to include identifying redundancies, examine the use and application of resources, gauge level of impact, and ensure alignment to Public Affairs' strategic priorities.

This evaluation will seek to answer a series of questions and further advise PA Senior leadership on proposed courses of action to replicate successful aspects of the simulations and/or advise on ways to improve areas of the USDC simulation design, implementation, and overall execution.

The examination should seek to answer the following questions:

- 1) Why are the USDC simulations important?
- 2) How do the simulations further support the Department's and Bureau's mission?
- 3) Are these simulations the most cost-effective approach to providing educational awareness on the State Department's mission?
- 4) How do the simulations align and/address Public Affairs strategic goals and objectives?

*Ideal End Goal: This examination will help develop lessons learned to contribute to the development of a future museum on public diplomacy slated to open in 2020.

Format of Final Project:

Final product report should not exceed 25 pages and the report should include the following details: project design, research methodologies, list of best practices, and areas of improvement to include detailing recommendations to support Public Affairs and Dept. of State's strategic objectives. Accompanying visual illustrations can be included in the report and can contribute to the page limit. Accompanying PowerPoint presentation is also preferred but not required.

Potential Areas of Useful Expertise or Interest:

Communications; Computer Science; Education & Cultural Studies; International Relations; Science and Technology; Sociology; Statistics; Museum Sciences, Public Diplomacy

Comments:

As available, the university team should be able to observe (in person, conference calls, and/or via skype as necessary) the full planning process of the simulations to include scenario design(s), implementation, and execution phases to gain more awareness on the simulations to make actionable recommendations.

Maximum Number of Projects: 1

Sentiment Analysis of Foreign Policy Priorities Coverage in U.S. Domestic Media

Office of Strategic Planning

Public Affairs

Overview:

The Bureau of Public Affairs Office of Strategic Planning (PA/OSP) seeks 3-4 sharp and professional media, communications and/or social science students who are studying and have a good working proficiency of data analysis to perform sentiment analysis on domestic media coverage of key narratives which PA is responsible for amplifying, as the Bureau currently does not possess this capability for U.S.-based media outlets. Information gathered from this project will be used to better inform the PA Bureau of how well its outputs are influencing media reporting, which can help drive strategic planning decisions on how, when, and where the Bureau can best use its resources for maximum impact.

For this project, sentiment analysis would be used to identify and categorize coverage of a specific foreign policy priority and decipher the tone (positive, negative, and/or neutral) assigned by the media outlet to the priority. Given the Diplomacy Lab project will occur in Fall 2018, a possible foreign policy priority of focus will be human rights and civil society, as the Department will engage in a variety of activities (including Human Rights Day, 16 Days of Activism against Gender-Based Violence, International Day of Persons with Disabilities, National Disability Employment Awareness Month), during this part of the calendar year that can be routinely tracked for the project.

In addition, the assessors will be able to use information and data gathered during 2017 on these same reports and initiatives that can serve as baseline for the analysis. The team would be responsible for tracking the narrative on this priority in the media through the semester, and particularly, how the media coverage changes and/or is influenced by major public events and activities in which the Department is engaged. The team may have regular opportunities to be included in strategic planning meetings PA/OSP leads to coordinate resources in support of major events and report rollouts.

Specialized experience and scholarship should include the following:

- Data analytics experience (to include proficiency and/or working knowledge of sentiment analysis)
- Organizational design, project management, evaluation, research, and/or social science background(s).
- Proficiency and/or working knowledge of data analysis software's preferably based on examining communication engagement (e.g. software's such as Shared Count, Sysomos, Sysomos Expion, Crimson Hexagon, TrendKite, Crowd Tangle, SimilarWebb, Google Analytics (GA), GA-360, Hootsuite, Slack, etc.)

Additional Expertise (preferred but not required): experience in communication planning, strategic planning, and/or public affairs.

Format of Final Project:

The Bureau of Public Affairs Office of Strategic Planning will expect the team to develop periodic snapshots of sentiment analysis of U.S. domestic media coverage throughout the semester. Such

snapshots should be 1-2 pages in length, to include an overview of results and then details, including data, that informs the analysis. Most likely, the team will produce a number of reports during the project time period, perhaps as many as 6-8. We would need a baseline report of domestic media coverage as it pertains to the key foreign policy topic within the first 2 weeks of the project timeframe, to be followed up with reports prior to and immediately after major events and report rollouts that succinctly summarize the media landscape prior to and after the event or rollout, and a final report that will summarize changes and trends in domestic media through the reporting period on the key foreign policy topic. Reports can be sent via e-mail. In addition, team members should expect to be engaged in regular contact, via conference call and/or Skype, with the PA/OSP and PA Evaluation team to discuss the scope and purpose of each report, which will enable the team members to ask questions, clarify parameters and present report findings.

Potential Areas of Useful Expertise or Interest:

Civil Society; Communications; Democracy & Human Rights; Information & Communication Technology; International Relations; Marketing; Sociology; Statistics; Data Analytics, Evaluation, Organizational Design, Sentiment Analysis,

Comments:

If you want to be at the forefront of helping the Department's Public Affairs bureau evaluate its messaging apparatus so that we can be more strategic in our communications, this is the project for you!

Maximum Number of Projects: 1

Lower Mekong Factors of Economic Independence

Office of Multilateral Affairs

East Asian and Pacific Affairs

Overview:

This project will require both a qualitative, policy-focused review and a quantitative economic analysis and falls generally under the field of Political Economy. One challenge to working on the Mekong sub-region is that no institution is currently aggregating data on the five mainland Southeast Asian countries as a sub-region. Teams will need to do this themselves, using reliable sources of data, as a base for some of their analyses.

Research question: Analyze geopolitical relationships between mainland Southeast Asian countries and major powers. Outline factors that predispose countries to partner with certain powers, to hedge against partnerships with others, or to reject partnership overtures. Underlying this analysis should be a deep analysis of factors of economic independence for each country individually and for the sub-region.

Format of Final Project:

Briefing (Presentation with PPT) and Report, including all statistical analyses utilized to generate results

Potential Areas of Useful Expertise or Interest:

East Asian/Pacific Studies; Economic & Finance Issues; International Development; International Relations

Comments:

N/A

Maximum Number of Projects: 4

Evaluation of Private Sector-Humanitarian Organizations Partnerships

United Nations Political Affairs

International Organization Affairs

Overview:

In June 2016, the U.S. government launched a Call To Action for the private sector to make new, measurable and significant commitments that will have a durable impact on refugees residing in countries on the frontlines of the global refugee crisis. While the Call To Action led to additional commitments, there still seems to be a lack of nexus in linking the private sector with humanitarian organizations. Teams would ascertain which companies have successfully provided innovations to humanitarian actors, how this was achieved, and how linkages between the private sector and humanitarian organizations can be improved.

The Call to Action was principally focused on generating new commitments in three “impact areas”:

- Education – Facilitating refugee children and young adults’ education by ensuring that refugee students can access schools of all levels and creating quality long-distance learning platforms and programs.
- Employment – Increasing employment opportunities for refugees, supporting refugee entrepreneurship, and assisting refugees’ reentry into the workforce.
- Enablement – Increasing humanitarian financing, strengthening infrastructure and access to resources needed for refugees to become self-reliant, and supporting countries taking new steps to welcome refugees or allow them to work and attend school.

Format of Final Project:

The office would like a 20 page paper and a presentation explaining where the Call To Action succeeded, with specific examples, as well as lessons learned and how to improve the nexus between the private sector and humanitarian actors.

Potential Areas of Useful Expertise or Interest:

Conflict, Stabilization, & Reconstruction; International Relations; Public-Private Partnerships; Humanitarian

Comments:

I work in the Bureau of International Organizations, Political Affairs Office, leading the Middle East team and was previously the senior humanitarian advisor in Turkey. The Department hosted various roundtables with private sector actors during the Syrian refugee crisis, and while the Tent Foundation has been established and is working, there seems to be a lack of nexus in Washington where most of the actors are located.

http://refugeesmigrants.un.org/sites/default/files/public_summary_document_refugee_summit_final_11-

11-2016.pdf

<https://obamawhitehouse.archives.gov/the-press-office/2016/06/30/fact-sheet-white-house-launches-call-action-private-sector-engagement-0>

<https://obamawhitehouse.archives.gov/the-press-office/2016/06/30/fact-sheet-white-house-launches-call-action-private-sector-engagement-0>

Maximum Number of Projects: 3

Design the State Department's IT School of the Future

SAIT Innovation Sandbox

Foreign Service Institute

Overview:

SAIT strives to empower our workforce to navigate a rapidly developing IT environment while broadening our reach through innovative and impactful learning. In order to achieve these goals effectively, SAIT needs to continually innovate how we develop and deliver new curriculum, explore and understand emerging technologies while maintaining expertise for legacy systems, and expand our learning ecosystem beyond formal training via microlearning, social and peer-to-peer learning, and informal learning opportunities. This project will assist SAIT to modernize our curriculum development processes, training delivery methods, and promote procedural and programmatic innovation in the use of IT in American diplomacy.

Format of Final Project:

- I. Development of a catalog of tools and services for State employees responsible for innovation across the Department related to data analysis/visualization, knowledge management, collaboration, and training
- II. Curation of a curriculum design resources for SAIT instructional staff tailored to be inspired by real human-centered design (e.g. learner personas, focus groups, other qualitative/quantitative research)
- III. Production of original microlearning content to supplement existing or future official courses and/or serve as standalone learning products for new hires, transfers, unique assignments, temporary duties, etc.
- IV. Development of an data analytics dashboard for SAIT Dean and executive staff to understand in real-time the school's performance in regards to enrollment rates, student data (e.g. level, job series, years at State), instructor data (e.g. podium hours, course load, and areas of expertise).
- V. Design for the IT School of the Future for the Department of State. Tabula rasa, blue sky thinking, starting from scratch, ideal theoretical design of what a modern IT school should be setting aside all Department historical contexts, political administration, bureaucratic limitations, and budgetary constraints.

Potential Areas of Useful Expertise or Interest:

Communications; Computer Science; Cyber Security; Education & Cultural Studies; Information & Communication Technology; Marketing; Science and Technology; Statistics; Training

Comments:

As the U.S. government's premier foreign affairs training provider, the Foreign Service Institute (FSI) is dedicated to ensuring career-long learning required for success in today's global arena. FSI is proud to

serve the U.S. Department of State and the entire USG foreign affairs community as a strategic enabler of diplomatic excellence by providing training for substantive, regional, and linguistic expertise, leadership finesse, and personal resilience and innovative problem-solving. The School of Applied Information Technology (SAIT) prepares all Department employees for their Foreign Affairs mission by developing proficiency in information technology and business applications; including but not limited to the installation, configuration, administration, troubleshooting, repair, and enterprise use of technology, IT Tradecraft, and information security.

Maximum Number of Projects: 3

Tracking the International Media Narrative and Combatting “Fake News”

Executive Office

Public Affairs

Overview:

Examine the Department of State’s international media capabilities to combat “fake news” and measure/quantify traditional media (i.e. print) content. Identify and/or propose strategies to combat “fake news” stories to include suggesting predictive reporting strategies (i.e. tactics to predict future “fake news” reports with actionable mitigation strategies). Suggest data analysis tools and/or softwares’ that can further aid in the tracking of Department’s international media footprint, identify impact, help predict “fake news” content, and develop actionable best practices.

Format of Final Project:

Final product report should not exceed 25 pages and the report should include the following details: project design, research methodologies, and how recommendations support Public Affairs and Dept. of State’s strategic objectives. Accompanying visual illustrations can be included in the report and can contribute to the page limit. Accompanying PowerPoint presentation is also preferred but not required.

Potential Areas of Useful Expertise or Interest:

Communications; Information & Communication Technology; International Relations; Science & Technology; Sociology; Statistics; Social Science; Computer Programming; Data Analytics; Evaluation; Case Studies; Organizational Design

Comments:

- Data analytics experience (to include proficiency and/or working knowledge of sentiment analysis)
- Organizational design, project management, evaluation, research, and/or social science background(s).
- Proficiency and/or working knowledge of data analysis software’s preferably based on examining communication engagement (e.g. software’s such as Shared Count, Sysomos, Sysomos Expion, Crimson Hexagon, TrendKite, Crowd Tangle, SimilarWebb, Google Analytics (GA), GA-360, Hootsuite, Slack, etc.)

The team may have opportunities to participate in applicable meetings. The team is expected to provide project status updates. A timeline of deliverable dates will be further discussed between the Department of State and the University.

Maximum Number of Projects: 1

Global Best Practices for Cryptocurrency Regulation

Office of Monetary Affairs; Communication and Information Policy

Economic and Business Affairs

Overview:

Research project to explore and analyze the factors that influence the worldwide economic geography of cryptocurrency development, exchanges, and miners in order to provide U.S. policy makers with recommendations for regulatory best practices that should be pursued both domestically and in international fora to allow innovation, protect consumers, and prevent illicit financing.

Some potential questions to consider include:

- Is there a correlation between a country's regulatory environment and the prevalence of theft/misuse of cryptocurrencies in that market?;
- How important is the regulatory environment in determining where cryptocurrency developers, miners, and exchanges are located?;
- What lessons learned can be drawn from existing global cryptocurrency regulation experiences in terms of which policies work, which don't, and why?;
- Drawing on empirical data, what regulatory balance is necessary to allow innovation, protect consumers, and prevent illicit financing?;
- How susceptible are less sophisticated regulatory environments to offers of "get rich" schemes that could create domestic vulnerabilities and potential negative externalities elsewhere in the global financial system?

Format of Final Project:

A maximum 100 page research study with a 1-3 page executive summary of key findings.

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; International Relations

Comments:

Potential Preliminary Reading:

https://www.jbs.cam.ac.uk/fileadmin/user_upload/research/centres/alternative-finance/downloads/2017-global-cryptocurrency-benchmarking-study.pdf

<http://www.imf.org/en/About/Key-Issues/Fintech>

Maximum Number of Projects: 2

Assessing the Wide-ranging Impact of Public Health Information Technologies

Office of Verification, Planning, and Outreach

Arms Control, Verification and Compliance

Overview:

A revolution is moving public health towards more capabilities to preventing diseases by leveraging modern information technologies. Interactive and easily accessible databases are coupled with a new generation of digital devices and analytic techniques to capture and interpret health and wellness data of a granularity and variety that would have been unthinkable a few years ago. In particular, personal wellness devices (such as Fitbits) monitor individual activities and biometric functions and they increasingly also collect environmental data to detect both harmful and beneficial exposures.

However, this revolution is also exposing sensitive data in ways not originally imagined. These developments raise important technical and social questions about the use and protection of privacy in the information age, social attitudes to big data, the appropriate use and validity of group-gathered data, and the power of persistent ubiquitous sensing.

A school may choose to address one of the issues identified below or create separate teams to undertake three broad areas of inquiry on this project.

1) Impact of Science and Technology on the Public Health Paradigm

How are new developments in science and technology changing the public health paradigm? What is coming over the next few years? The participants should include a description of the capabilities and limitations of each future device or concept. Who are the principal actors in pushing the field forward?

2) Unintended Consequences from Public Health Information Technologies

Will these developments advance additional public interests and capabilities? For example, can we use data from citizen sensors to monitor climate change or to detect sudden population movements and/or biological stress indicators associated with humanitarian crises? Could such data assist public health responders in assessing and/or predicting areas that may face a disease outbreak? If personal devices can detect chemical exposures over time by many individuals, could this open the door to the monitoring of commercial chemical producers? Or, could these capabilities greatly improve the monitoring of the presence of biological or chemical agents and/or contaminants? In looking at real-world examples (such as the water contamination crisis in Flint, MI), how could such scenarios have played out differently had routine and continuous citizen medical monitoring been in place? The participants should propose monitoring architectures that may provide satisfactory outcomes. Such architectures should include the kind of measurements required, types of suitable devices, and processes to verify data.

3) Legal and Ethical Ramifications from Public Health Information Technologies

What current federal guidelines provide guidance on the relationship between developers and users of public health devices? What kind of privacy issues (ethical and legal) does the use of “citizen sensors” to

further public interest goals pose? What are the ethics of, and appropriate tradecraft for the use of data generated by citizen sensors? What are the legal issues? Is it possible to maintain access to aggregate information of legitimate public interest while protecting privacy? How might privacy protections be incorporated into the procedural and technical architecture? How do we support and constructively participate in conceptual design work for the institutional framework to oversee and regulate the use of citizen sensors?

Format of Final Project:

Ten-page paper for each of the three areas of inquiry.

Potential Areas of Useful Expertise or Interest:

Global Health; Information & Communication Technology; Healthcare Ethics and Law

Comments:

Here is some background reading to get the groups started:

The report for the JASON 2014 Summer Study titled “Health Information Technology” (for HHS) is posted on line at

<https://www.healthit.gov/sites/default/files/2014-JASON-data-for-individual-health.pdf>

there is also an earlier, somewhat related report at

https://www.healthit.gov/sites/default/files/ptp13-700hhs_white.pdf

These articles may be helpful as well:

Your Next Fitbit Should Detect Nuclear Bombs, DHS Hopes:

http://www.defenseone.com/technology/2015/11/your-next-fitbit-should-detect-nuclear-bombs-dhs-hopes/123512/?oref=defenseone_today_nl

Michael J Fox in Parkinson’s smartwatch drug trial tie-up

<http://www.ft.com/intl/cms/s/0/83bc7ffa-b4c7-11e5-8358-9a82b43f6b2f.html axzz3waGNBbPh>

Why Cows Could Soon Be Wearing Fitbits

<http://www.msn.com/en-us/news/offbeat/why-cows-could-soon-be-wearing-fitbits/ar-BBlhdd3?srcref=rss&ocid=winrs>

New Smart Street Corners That Will Act like a Fitbit for the City

<http://www.wired.com/2014/10/chicagos-new-smart-street-corners-will-act-like-fitbit-city/>

An Ethical Assessment Model for Digital Disease Detection Technologies

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5605474/>

U.S. Soldiers Are Revealing Sensitive and Dangerous Information By Jogging

https://www.washingtonpost.com/world/a-map-showing-the-users-of-fitness-devices-lets-the-world-see-where-us-soldiers-are-and-what-they-are-doing/2018/01/28/86915662-0441-11e8-aa61-f3391373867e_story.html?utm_term=.79c190a942a8

Maximum Number of Projects: 3

Private sector engagement in forest landscape restoration

Office of Environmental Quality and Transboundary Issues (EQT)

Administration

Overview:

Over one-quarter of the world's land area is estimated to be either highly degraded or undergoing high rates of degradation. Degraded areas fail to support biological diversity, agricultural productivity, and human wellbeing, and contribute to stresses on land resources, particularly in tropical areas with high rates of ongoing deforestation for agricultural conversion. Forest landscape restoration (FLR) is the process of regaining ecological functionality and enhancing human well-being across deforested or degraded forest landscapes. According to a global assessment of restoration potential, there are more than two billion hectares of deforested and degraded land around the world where opportunities for some type of restoration intervention may be realized.

The Global Environment Facility (GEF) is a multilateral partnership of 183 countries, international institutions, and civil society organizations that addresses global environmental issues which operates as the financial mechanism that supports the six multilateral environmental agreements (MEAs). The GEF has recently financed a series of FLR projects, including the Restoration Initiative (TRI) – a \$ 54 million USD global program to help countries restore degraded landscapes at scale. The GEF has a long history of engaging business and catalyzing private sector investment, and has recently recommitted to improving and expanding its private sector involvement.

This project aims to explore, characterize and analyze private sector engagement in GEF-financed forest landscape restoration projects at a global scale in 3 key areas:

1. What is the scope for private sector entity involvement with the GEF-FLR portfolio?
2. What is impact of private sector entity involvement for local governance, project fiscal sustainability, and global environmental benefits (including climate change, biodiversity, and land degradation)?
3. What synergies and trade-offs develop when the private sector is involved in FLR projects?

A better understanding of the challenges and opportunities of private sector engagement is critical to global conservation efforts.

Format of Final Project:

Review paper and evidence database

Potential Areas of Useful Expertise or Interest:

Conservation Finance

Comments:

The State Department's Office of Environmental Quality and Transboundary Issues (EQT) coordinates development of U.S. foreign policy protecting access to clean water, clean air, food, and a livable environment by working with partners and institutions around the globe.

Contamination of food and water, polluted air, and toxic chemicals, some capable of traveling thousands of miles from their source and lasting decades in the environment, all take a toll on American welfare and on our economy. Globally, the lack of a clean environment can contribute to regional instability, fuel conflict, disrupt markets and cause humanitarian crises. Addressing such problems requires international cooperation and commitment. EQT's work helps ensure good stewardship of our natural heritage, and protect the health and well-being of American interests throughout the world.

EQT's efforts fall into the following areas:

Chemicals, Air Quality and Waste: EQT develops and coordinates U.S. policy in the areas of air pollution, toxic chemicals and pesticides, hazardous wastes, and other pollutants, leading U.S. government engagement on numerous chemicals and pollution agreements and initiatives. These include the Montreal Protocol on Substances That Deplete the Ozone Layer, the Stockholm Convention on Persistent Organic Pollutants, the Basel Convention on Transboundary Movements of Hazardous Wastes, the Rotterdam Convention on Prior Informed Consent, the UN ECE Long-Range Transboundary Air Pollution Agreement, the Minamata Convention on Mercury, and the Strategic Approach to International Chemicals Management.

Trade and Environment: EQT coordinates the U.S. government's trade-related environmental cooperation programs. The trade group works as part of the interagency team that ensures new trade agreements have strong, legally binding, enforceable environment commitments, and monitors compliance. We work together with our trade agreement partners to strengthen their laws and improve enforcement, helping ensure that businesses in these countries are playing by similar environmental rules as U.S. businesses.

Multilateral: EQT helps coordinate U.S. engagement with multilateral organizations such as the UN Environment Program and the Global Environment Facility (GEF) to enhance protection of the environment and promote prosperity, national security, health and safety. EQT also contributes to the integration of environmental considerations into the work of multilateral development banks, and promotes progress on the Sustainable Development Goals (SDGs).

Permitting: EQT also leads the process of environmental review for presidential permitting of transboundary infrastructure, and consistent with the National Environmental Policy Act, analyzes the possible impacts of such projects on the environment.

Maximum Number of Projects: 2

Promoting Women's Advancement at the United States Department of State

Office of Peacekeeping, Sanctions and Counterterrorism but the proposal is on behalf of Executive Women at State

International Organization Affairs

Overview:

Executive Women at State, an employee group representing over 2,000 women at the Department of State that seeks to promote the advancement of women across the Department, is looking for a university partnership to help us understand the academic literature related to women's advancement. We are interested in identifying and understanding lessons learned from studies related to the status of women in the workplace, and programs or initiatives that have been used to promote the advancement of women in the public and private sectors. We are looking for a literature review that identifies top scholarship on the issue of women's advancement, and highlights key findings that have proven effective in supporting the advancement of women. These findings will help to inform advocacy to promote the advancement of women at the Department of State.

Format of Final Project:

Written report. Power point and/or presentation with innovative uses of technology welcome.

Potential Areas of Useful Expertise or Interest:

Gender Studies; International Relations

Comments:

Faculty and student partners will have the opportunity to present research and findings to a diverse group of women at all ranks in the Department, from entry level to ambassadors. We look forward to working with you!

Maximum Number of Projects: 2

Tracking Trends in International Bribery and Enforcement

Office of Monetary Affairs

Economic and Business Affairs

Overview:

Research prosecutions and convictions or settlements of foreign bribery by year of the countries which have acceded to the Anti-Bribery Convention; identify if there is some minimum gap between accession and effective prosecutions. The Organization for Economic Cooperation and Development (OECDs) Working Group on Bribery (WGB) has aggregate data over time, but more granular data would allow the WGB to assess the status of enforcement efforts more effectively.

Determine if trends exists in investigations and prosecutions exist after OECD WGB member accession and after a particularly well publicized case of international bribery started by the US and made public in world press.

The paper will help inform US policy in engaging with the OECD's Working Group on Bribery.

Format of Final Project:

A 5 page research paper with supporting quantitative data.

Potential Areas of Useful Expertise or Interest:

Criminal Justice/Law Enforcement; Economic & Finance Issues; International Law; International Relations; Political/Military Affairs; Statistics

Comments:

About us: U.S. Department of State - International Development and Finance
(<https://www.state.gov/e/eb/ifd/oma/index.htm>)

Data sources for the project:

- 1) <http://www.oecd.org/daf/anti-bribery/data-on-enforcement-of-the-anti-bribery-convention.htm>
- 2) Internet searches for “country name” plus “international bribery investigation or conviction.”

Maximum Number of Projects: 2

Reaching Underserved Communities through Virtual Exchange

The Collaboratory

Educational and Cultural Affairs

Overview:

Virtual exchanges and other forms of technology-enabled public diplomacy are increasingly important tools for engaging Americans with communities overseas. But the “digital divide” not only exists between developed nations like the United States and its overseas interest. Access to internet connectivity and bandwidth also varies within the United States, particularly along socioeconomic and geographically underserved populations. In this way a technology gap within the United States also becomes a “diplomacy gap.”

Underserved communities, schools, and public institutions that lack the resources for sustained real-time connections for potential exchange partners are unable to take advantage of virtual exchange and digital diplomacy opportunities currently available to other Americans. At the same time, underserved American communities are less visible in our public diplomacy efforts to use to share America’s stories with the world. As innovators and experts in developing virtual exchange programs within ECA, The Collaboratory is interested in assessing how digital divides contribute to diplomacy divides – and explore potential solutions to this emerging problem.

Format of Final Project:

Potential outputs include:

- An assessment of the technological and logistical needs of community colleges and other educational institutions in underserved communities in order to participate in virtual exchanges and other forms digital diplomacy.
- An evaluation of current ECA virtual program engagement with underserved rural and inner-city communities.
- Studies of the effects of a digital diplomacy divide on American foreign policy outcomes.
- Best practice recommendations for technological or social solutions to public diplomacy gaps in underserved communities.

Potential Areas of Useful Expertise or Interest:

Communications; Education & Cultural Studies; Information & Communication Technology; International Relations; Youth Issues

Comments:

If we receive multiple proposals, we will assign them to one of the six political regions within the Department (WHA, SCA, NEA, EAP, AF, or EUR).

Maximum Number of Projects: 6

Who Run the World? Girls (& Women) in STEM

Office of Science and Technology Cooperation

Oceans and International Environmental and Scientific Affairs

Overview:

To inform the Department on best practices to incorporate into gender-inclusive initiatives in science, technology, engineering, and math (STEM) fields and create new international efforts around advancing women in STEM, we'd like to have a better idea of other initiatives happening around the world. In our offices, we focus on creating and maintaining strong science and technology cooperative efforts with countries around the world, and women in STEM is more and more an integral part of those efforts. Women in STEM fields are underrepresented whether it's in participation in academic settings, levels of employment, or attaining leadership positions. In addition, STEM is crucial to future women's economic empowerment. STEM can include everything from learning to code, selling renewable energy products, forming biotech startups, or becoming CEOs of global companies. With more women in STEM fields, science is better, technology is more innovative, engineering is more efficient, and math is more elegant. By researching existing governmental, civil society, and academic efforts internationally, your team will help advise our office to amplify and replicate successful models, build on existing efforts in priority countries, and effectively engage new partners. Because of the nature of the work we do, we are looking for large-scale, systemic efforts rooted in policy or advocacy – these should be novel and innovative. We will rely on your team's policymaking and research skills, focused attention to cut through the large amount of noise of this topic, and meaningful analysis of why these case studies matter. Your team taking on this project would advance our efforts to include meaningful and powerful women-in-STEM-specific initiatives in our science and technology relationships around the world. We can't wait to work with you.

Format of Final Project:

We would like to receive a PowerPoint presentation of 10 international case studies, along with a more detailed written report with greater levels of detail and data.

Potential Areas of Useful Expertise or Interest:

Civil Society; Economic & Finance Issues; Education & Cultural Studies; Gender Studies; International Development; International Relations; Public-Private Partnerships; Science and Technology

Comments:

Pew Research Center, the American Associate of University Women (AAUW), the World Bank and other multilateral orgs have some great reports to start with.

Maximum Number of Projects: 6

Investment Screening Mechanisms' Impact on Foreign Investment Levels

Office of Investment Affairs

Economic and Business Affairs

Overview:

With many countries around the world growing increasingly sensitive to the strategic dimensions of foreign investment and the possibility that investments from countries of concern may pose national security risks, governments are considering instituting new investment screening mechanisms and strengthening existing ones. The Office of Investment Affairs is deeply involved in engaging with foreign countries on this issue, and has been asked by foreign officials whether instituting an investment screening regime has any predictable impact on foreign investment inflows. Very little empirical economic research appears to have been done on this question. We would be interested in having a team of students in international economics and development finance do a study of the relationship between the existence of investment screening mechanisms (which may be focused on national security, may consider “net benefits” to the receiving country, or may simply exist as broad discretionary authorities or restrictions on investments in certain sectors), on the one hand, and foreign investment stocks, flows, and growth rates, on the other. Having a study to point to in our conversations with like-minded countries, particularly in Europe, will be invaluable in providing them with advice and technical assistance on the best way to protect shared national security interests while continuing to attract competitive levels of desirable foreign investment.

Format of Final Project:

Research paper of an appropriate length, to be determined, plus a presentation of the research findings

Potential Areas of Useful Expertise or Interest:

Economic & Finance Issues; International Development; International Relations

Comments:

We expect this project can be completed in one semester. We encourage students to look at data from BEA, AEI, Rhodium Group, and RWR Advisory/Inteltrak on foreign investment, as well as the OECD's openness to investment index, the World Bank's Ease of Doing Business index, and Ted Moran's work on investment screening mechanisms.

Maximum Number of Projects: 1

Case Studies and Policy Recommendations: Public Diplomacy and Public Affairs Messaging on Foreign Investment Screening

Office of Investment Affairs

Economic and Business Affairs

Overview:

As the United States Congress considers draft legislation to strengthen the Committee on Foreign Investment in the United States (CFIUS), and other governments of other economic powerhouses, such as Australia, France, Germany, Italy, Japan, and the UK, consider taking similar steps, some industry associations have expressed misgivings about the impact that stronger investment screening will have on investment flows and business climates. From the U.S. government's perspective, stronger investment screening that remains focused on discrete national security threats does not present a debilitating regulatory burden for businesses, including well-intentioned foreign investors. Ideally, stronger investment screening will thwart illicit attempts to transfer technology, intellectual property, and proprietary data under the cover of foreign investments and joint ventures—a step that will level the playing field for firms from the United States and likeminded countries, and will bolster public confidence in a robust, rules-based open investment regime. Unfortunately, not every country's investment screening mechanism is strictly focused on national security, and even those that are can be incorrectly perceived as advancing a protectionist agenda. In a world of imperfect media coverage and outright disinformation campaigns sponsored by state actors, how can the U.S. government effectively spread its message that stronger national security investment review is an asset for open investment between the United States and like-minded countries, not a liability? We will be interested in multiple case studies, potentially from multiple research teams, of countries and industry sectors relevant to this discussion, including problems of political support and public opinion vis-à-vis U.S. government engagement on this issue. We will appreciate these case studies including recommendations for improving U.S. public diplomacy “messaging” to successfully communicate that “America is open for business” and supports a rules-based open investment regime with all countries willing to participate on the basis of free, fair, and reciprocal conditions, including the protection of sensitive technologies, critical infrastructure, and proprietary information from potentially hostile strategic competitors.

Format of Final Project:

We would request a succinct (maximum 5 pages, single-spaced) case study from each participating team, along with a one-page memo containing policy recommendations for messaging key audiences (government, public, private sector industry, civil society, academia, etc.) identified in the case study. Each team will be invited to present the case study and policy memo to Department of State officials working on this topic.

Potential Areas of Useful Expertise or Interest:

Communications; East Asian/Pacific Studies; Economic & Finance Issues; Energy Security; European & Eurasian Studies; Food Security; Information & Communication Technology; International Development; International Relations; Marketing; Middle East/North African Studies; Western Hemisphere Studies

Comments:

We expect this project can be completed in one semester. We encourage students to look at coverage of foreign investment screening by CSIS (Matthew Goodman), AEI (Derek Scissors), Rhodium Group, and the Peterson Institute (Ted Moran), as well as the OECD's openness to investment index, the World Bank's Ease of Doing Business index, and coverage in major national and international news outlets of the Committee on Foreign Investment in the United States. North American, European, Chinese, Japanese, and Australian media coverage on foreign investment screening is of particular interest. An article in the NYT entitled "CFIUS, Powerful and Unseen, is a Gatekeeper on Major Deals" is a good place to start analyzing coverage (and misperceptions) of CFIUS as an element of a protectionist economic policy.

Maximum Number of Projects: 6

Access to Potable Water in First Nation Community

United States Consulate General Toronto

U.S. Mission to Canada

Overview:

The Consul General at the U.S. Consulate General Toronto in Ontario, Canada, is passionate about water issues in the Great Lakes region. In collaboration with the Government of Ontario he established four water working groups to address key issues facing the Great Lakes. Some of the topics addressed by the groups include reducing road salt use during winter, addressing harmful algae blooms, and boosting regional economic development in the Great Lakes region. Separately from the working groups, the Consulate is facilitating discussions between Coca-Cola Canada and Curve Lake First Nation (CLFN) to address the community's limited access to potable drinking water. CLFN is an indigenous community in southern Ontario, Canada, approximately two and a half hours by car from downtown Toronto. Curve Lake locals do not have reliable access to potable water and are seeking technological solutions to address this issue. Curve Lake's long-term goal is to see the construction of a new wastewater treatment facility in their community.

Currently there are 91 long-term water advisories across Canada listed by the Canadian federal government's Indigenous Services department and they are committed to ending all long-term advisories by March 2021; the community of Curve Lake is on this list. Curve Lake is currently awaiting a response from the federal government regarding possible funding avenues to aid in the construction of a water treatment facility. However, in the interim, Curve Lake is also looking for expertise to evaluate the results of a number of studies conducted to identify the community's main areas of concern. We are looking to partner with a university engineering department who might be able to provide the technical expertise needed to evaluate the community's studies and guide them toward a possible solution. We envision two engineering teams: one focused on evaluating and studying existing water data, and the other working on the implementation of a Source Water Protection Plan (SWPP). Coca-Cola has an existing SWPP designed to understand the source of the water, the amount of water available, the quality of the water, water infrastructure condition and needs, and policies that govern water.

Format of Final Project:

For engineering team 1, working on the study evaluation, the deliverable would be a comprehensive report (with executive summary) outlining the findings of the surveys and recommendations for next steps.

For engineering team 2, the group working on the SWPP, the deliverable would be working with our colleagues at Coca-Cola Canada to conduct a source water assessment and subsequently implement a SWPP. Coca-Cola Canada has an existing SWPP model they would like to use in this community, however they require the help and innovation of students to determine how best to adjust this process for use in the Curve Lake community.

Potential Areas of Useful Expertise or Interest:

Water Security; Indigenous Studies

Comments:

Resource about the broader water crisis in First Nations communities:

<https://www.hrw.org/news/2016/06/07/canada-water-crisis-puts-first-nations-families-risk>

Recent news story about water access in Curve Lake First Nation:

<https://www.thepeterboroughexaminer.com/news-story/8175152-cleaner-water-getting-closer-for-curve-lake-first-nation-after-making-federal-list/>

Maximum Number of Projects: 2