



**Atkinson Center
for a Sustainable Future**



Atkinson Center–EDF Summer 2017 Internship Proposals

Environmental Defense Fund (edf.org), a leading international nonprofit organization, creates transformational solutions to the most serious environmental problems. EDF links science, economics, law and innovative private-sector partnerships.

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Are you interested in exploring the work undertaken by an internationally-recognized environmental organization? By joining EDF as an Intern, you too can be part of a vibrant workplace that welcomes diverse perspectives, talents and contributions, where innovation and a focus on results are a way of life. EDF's Internship Program welcomes intellectually engaged students to join us, advance our work, and cultivate the skills and relationships needed for a successful career. Alumni of our Internship Program have gone on to important leadership positions in a diversity of organizations, most notably our own President, Fred Krupp. Could you be the next Fred Krupp?

EDF offers internships and fellowships for students and recent graduates in a variety of programs and departments throughout the organization. The ultimate goal of our internship and fellowship program is to provide high-quality experiences (including relevant projects and opportunities for networking) that form the foundation for any individual who is serious about pursuing an environmental career.

The Atkinson Center and the Environmental Defense Fund are again sponsoring two summer internship programs for Cornell University undergraduate and graduate students:

- **Atkinson-EDF Internships:** for 6 students to work in:
 - Boston, MA
 - New York, NY
 - San Francisco, CA
 - Washington, DC
- **Iscor-EDF Internships:** for 3 students to work in:
 - Austin, TX
 - New York, NY
 - San Francisco, CA
 - Washington, DC

Employment and Application Information for all positions is on last page

Atkinson-EDF Summer 2017 Internship Proposals

1. *Clean Air and Kids' Health Research and Event Planning*

Anneka Wisker (Washington, DC)
Project Manager, Moms Clean Air Force
U.S. Climate & Political Affairs

2. *Collaborative Clean Energy Policy*

James Fine, Ph.D. (San Francisco, CA)
Senior Economist and Director of Clean Energy Policy Research
Climate & Energy Program

3. *Rights-based Fishery Management in the Broader Socio-political Context*

Jake Kritzer (Boston, MA)
Director, Diagnostics and Design
Oceans Program

4. *Adaptive Management and its Application in the NEPA Process*

Natalie Peyronnin (Washington, DC)
Science Policy Director, Mississippi River Delta Campaign
Ecosystems Program

5. *Finding Environmental Solutions through Data Science*

Beth Trask (San Francisco, CA) Adam Peltz (New York, NY)
Project Director OR *Attorney, Oil & Gas*
Oil & Gas Program Oil & Gas Program

6. *Agricultural Greenhouse Gas Markets-Working Lands Conservation Finance*

Robert Parkhurst (San Francisco, CA)
Director of Agricultural Greenhouse Gas Markets
Ecosystems Program

Iscol-EDF Summer 2017 Internship Proposals

1. *Adaptive Management of Habitat Exchanges*

Ted Toombs (Washington, DC) Doria Gordon, Ph.D. (Washington, DC)
Scientist AND *Lead Senior Scientist*
Ecosystems Program Office of the Chief Scientist

2. *Marketing & Communications Intern: Sustainable Food Production*

Rick Velleu (New York, NY)
Manager
Marketing & Communications

3. *Innovative Air Pollution Monitoring*

David Lyon, Ph.D. (Austin, TX) Beth Trask (San Francisco, CA)
Scientist OR *Project Director*
Climate & Energy Program Oil & Gas Program

1) **Atkinson-EDF Summer 2017 Intern:**

Clean Air and Kids' Health Research and Event Planning

Moms Clean Air Force, U.S. Climate and Political Affairs Program (**Washington, DC**)

Reports to

Anneka Wisker

Project Manager, Moms Clean Air Force

Overall Function

Moms Clean Air Force is seeking a highly motivated and deeply qualified undergraduate student who is interested in working with a quickly growing program composed of staff located across the country. The successful candidate will work closely with both the Project Manager and National Field Director on executing tasks to support the Moms Clean Air Force core and field teams--both on the ground and digitally.

This chosen candidate will be responsible for conducting research to update the Moms Clean Air Force suite of "Armed With the Facts" resources and ensuring that all of Moms' online resources are current and up-to-date. Additionally, the candidate will help plan and execute Moms Clean Air Force's signature event, the annual Play-In for Climate Action, which will be held in Washington, DC on July 12, 2017.

Within the 10 week term, the candidate will be expected to identify what areas in the Moms Clean Air Force "Armed With the Facts" resources need updating and conduct research to implement necessary updates. The chosen candidate will also be expected to assist in logistical planning leading up to the Play-In and be heavily involved day-of to help execute a successful event.

Through conducting research in the areas of clean air, climate change and health, the candidate will further their knowledge in these areas and benefit from interacting with experts on the Moms Clean Air Force team, including Public Health Policy Director, Molly Rauch. The chosen candidate will also gain hands on experience in event planning for a large scale, national event.

Key Responsibilities

Tasks will include but are not limited to:

- Research on various issue areas, including clean air, climate change and health, to update existing Moms Clean Air Force materials.
- Execute tasks in the logistical planning of the annual Play-In for Climate Action; provide support for the event day-of.
- Assist Program Assistant with managing field team materials.
- Attend and take notes at relevant Congressional hearings and meetings.
- Monitor influentials' and elected officials' social media accounts to identify opportune areas to communicate.
- Assist Program Assistant in pulling email and membership data.
- Track Moms Clean Air Force field activity and ensure events are well represented through collecting photos and relevant details from field consultants.
- Attend all Moms Clean Air Force meetings and document through note taking.

Qualifications

- Demonstrated interest in environmental and health issues.
- Experience in conducting and interpreting research.
- Proficient with technology, database, word processing, and spreadsheet software (Microsoft Word, Excel, PowerPoint preferred);
- Knowledge of social media platforms, including Twitter, Facebook, Instagram, Pinterest;
- Excellent written and oral communication skills.
- Must be well organized, motivated, and detail-oriented.
- Ability to multi-task, prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

2) Atkinson-EDF Summer 2017 Intern:

Collaborative Clean Energy Policy

Clean Energy Innovations Team, Climate & Energy Program (**San Francisco, CA**)

Reports to

James Fine, Ph.D.

Senior Economist and Director of Clean Energy Policy Research

Overall Function

Atkinson Intern will support research and advocacy underway by the Clean Energy team working on electricity policy reforms in California. Atkinson Intern will work closely with legal, political and outreach team to prove out the hypothesis that the clean energy revolution will deliver near-term, as well as long-term, benefits for the most vulnerable ratepayers, including low-income households and small businesses.

Key Responsibilities

Tasks will include but are not limited to:

- The primary responsibility of the Atkinson Intern will be to provide supporting research and writing as a co-author of a scholarly research paper. The paper topic is how the clean energy solutions that EDF supports will lower utility bills, improve health and provide additional benefits for the most vulnerable ratepayers. The analytical demonstration will be based on a dataset obtained from Pacific Gas & Electric, and will be undertaken in collaboration with researchers at the Stanford Precourt Center. Specifically, Intern will support business case analyses to address foundational hypotheses associated with the transition to a clean energy economy:
 - Clean distributed energy resources (DER), such as self-generation using solar photovoltaics, demand response and behavioral changes, will provide near-term benefits for the most vulnerable electricity users, including low-income households and small businesses in disadvantaged communities.
 - DER are cost-effective strategies to facilitate alignment of electricity demand with the availability of clean generation resources, but will require market reforms to reach high levels of penetration by being fairly and comprehensively rewarded.
- To test the business case analyses in the context of observed energy use patterns, Intern will support EDF's collaboration with the Stanford Precourt Center, including but not limited to research, analysis and writing regarding the Residential electricity reform and piloting time-of-use (TOU) rates proceeding at the California Public Utilities Commission. Intern will focus on understanding how ratepayer energy bills will change when (a) electricity rates are changed to time-of-use rates, and (b) on-site DER solutions are implemented. Using the VISDOM modeling platform developed at Stanford, Intern will identify bill impact mitigation strategies and the costs and benefits of selected strategies that are appropriate for low-income households and small businesses located in California's disadvantaged communities.
- Atkinson Intern will support infield demonstration of clean energy solutions by working with Campaign Manager leading community engagements in Fresno and

Los Angeles. Atkinson Intern will help to dovetail these demonstrations with the research undertaken to support the research paper. Specifically, analyses conducted in collaboration with Stanford will be ground trothed using work underway, including EDF's partnership with the City of Fresno in the Power the Tower project. Intern will be liaison between Stanford research and City of Fresno outreach and engagement with energy users in Fresno's Tower District.

- Atkinson Intern will join EDF Clean Energy team in outreach meetings that may include the following:
 - Staff and Commissioners at California state agencies
 - Members of the California State Legislature
 - Google X team developing Google Sunroof platform
 - Research team at Stanford's Precourt Center, UC Berkeley or National Laboratories
 - Staff and Commissioners at California state agencies
 - Members of the California State Legislature
 - Utility companies
 - Companies developing storage, demand response and self-generation technologies
 - Solar industry associations and rooftop solar PV companies, such as Solar City and Solar Energy Industry Association
 - Environmental advocacy and environmental justice groups, such as Natural Resources Defense Council and Environmental Health Coalition.
- In addition to direct supervision from the Senior Economist, Atkinson Intern will be expected to learn quickly, to be organized with tasks and questions, and exert their voice and opinion.
- Atkinson Intern will meet weekly with Senior Economist, and small amounts of travel to Sacramento, Fresno or Los Angeles may be required.

Qualifications

- Demonstrated interest in environmental policy and/or clean energy
- Coursework energy, economics, community engagement and research methods are welcomed, but not essential.
- Experience contributing to a joint research effort and/or publication of a scholarly research paper.
- Highly proficient in Excel or similar data management and analysis software.
- Excellent written and oral communication skills.
- Must be well organized, motivated, and detail-oriented.
- Ability to multi-task, prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

3) Atkinson-EDF Summer 2017 Intern:

Rights-based Fishery Management in the Broader Socio-political Context
Oceans Program (**Boston, MA**)

Reports to

Jake Kritzer

Director, Diagnostics and Design, Oceans Program

Overall Function

EDF's strategy to reverse global trends of overfishing involves designing a variety rights-based fishery management (RBFM) systems tailored to the unique social, economic, political, and ecological context of a given fishery in order to safeguard access to fish resources and incentivize sustainable harvest. International guidelines for sustainable and equitable management of small-scale fisheries (SSF) recognize the role of secure tenure systems, one important RBFM model, in ensuring the livelihoods, well-being, and basic human rights of SSF communities. The success of tenure systems and other types of RBFM, however, hinges upon adapting to the cultural context, diagnosing socio-economic and cultural concerns, prioritizing social objectives, aligning with other marine environmental management systems, and integrating all of these considerations into our tools and regional strategies.

The Oceans Program's Fishery Solution Center (FSC) is working to build a toolkit that our regional staff can employ within SSF communities throughout our diverse focal geographies, including locales within the United States, Europe, Latin America, and the Asia-Pacific region. We are seeking an intern to join the FSC as a member of the Diagnostics and Design (D&D) Team to help expand this toolkit in ways that better align RBFM with other social, cultural, and governance concepts and issues. The intern will assist in examining socio-economic and cultural contexts of SSF communities, providing new insights into opportunities for RBFM to meet social objectives in our focal regions. Additionally, the intern will examine ways in which RBFM complements, duplicates, or potentially is in conflict with other marine environmental management concepts that aim to strengthen social-ecological systems, such as an ecosystem-approach to fisheries management (EAFM), fishery improvement projects (FIPs), fishery performance indicators (FPIs), integrated coastal management (ICM), locally-managed marine areas (LMMAs), and others. This work will enable the FSC to provide its regional staff with culturally-relevant management solutions that prioritize human rights, promote equitable access and participation in SSF, and fit within broader natural resource management strategies.

We are seeking an undergraduate or graduate student with an understanding of underrepresented groups such as women, indigenous peoples, religious minorities, and other often marginalized and vulnerable populations, as well as understanding of ecology and environmental management. The primary products of this work will include memos, white papers, and the development of FSC tools aimed at analyzing and diagnosing the social-economic and cultural needs of marginalized groups within SSF communities, how RBFM can meet these needs, and how RBFM models can better align with other governance concepts in support of human rights, environmental justice, and equity. Work products may also include presentation slides, fact sheet content, or talking points for colleagues to use when engaging with other NGOs, government officials, industry

members, and other stakeholders in the field. The ideal candidate would have the ability to integrate personal interests, strengths, and professional goals with the needs of our regional teams and develop an innovative and ambitious work plan accordingly.

The intern will be a full member of the D&D Team, working directly with a variety of FSC colleagues and regional staff stationed around the globe, and external partners. Regular mentorship will be provided by the Director, Diagnostics and Design, with additional guidance from our Manager, Diagnostics and Design, RAY Conservation Fellow, and others. Additionally, the intern may have the opportunity to attend internal and external meetings, workshops, and other events that will provide exposure to and networking opportunities with a wide array of fisheries practitioners. This is a unique opportunity to both understand and shape fisheries management on a global scale, particularly in the context of social equity and human rights.

Key Responsibilities

Tasks will include but are not limited to:

- Coordination with FSC staff and Oceans Program regional teams to assist in serving the diverse needs of SSF communities where the Oceans Program enterprise is working.
- Research on the human rights, environmental justice, and equity issues confronting fisheries in the Oceans Program focal geographies and elsewhere, identification of effective solutions.
- Research on the array of approaches to marine environmental management, and how those approaches achieve social objectives, uphold human rights, and align with other governance models.
- Synthesis and analysis of newfound knowledge and data in the form of memos, white papers, fact sheet content, etc.
- Application of thoughtful and innovative insights to improve FSC tools and resources utilized by regional staff.
- Support of the FSC as whole, particularly the Diagnostics and Design Team, including taking on additional tasks as needed.

Qualifications

- Current undergraduate student or graduate student, or recent graduate.
- Expertise in at least one discipline necessary to understand complex fishery systems, including sociology, anthropology, economics, political science, ecology, natural resource management, or others, and training in additional disciplines.
- Ability to work both independently and as part of a multidisciplinary team, including with colleagues from different technical and cultural backgrounds, and distributed across multiple geographies.
- Desktop and field research experience, and interest in expanding those skills.
- Ability to adapt work plan to personal interests, strengths, and professional goals, as well as emerging organizational and regional needs.
- Proficiency in Microsoft Office (Word, Excel, PowerPoint).
- Ability to think creatively.
- Excellent written and oral communication skills.
- Ability to multi-task, prioritize, and meet deadlines.

4) Atkinson-EDF Summer 2017 Intern:

Adaptive Management and its Application in the NEPA Process

Mississippi River Delta Campaign, Ecosystems Program (**Washington, DC**)

Reports to

Natalie Peyronnin

Science Policy Director, Mississippi River Delta Campaign

Overall Function

Climate change poses real challenges to decision-making processes, specifically surrounding regulations and permitting, that typically rely on a reasonable estimation of future conditions. Deep uncertainty associated with climate change impacts can make it nearly impossible to predict a single future condition. Decision-making under deep uncertainty utilizes techniques to analyze multiple potential futures and develop robust and adaptable solutions that ensure financial investments are sound. Adaptive management is a key principle that, although historically has faced multiple implementation challenges, will increase in importance into the future.

Adaptive management relies on feedback loops between data collection and analysis, learning and decision-making. It is inherently flexible. However, numerous of our environmental laws and regulations are purposefully not flexible. To properly respond to the impacts of climate change, our environmental laws and regulations need to embrace adaptive management, however adding flexibility, if done inappropriately, could weaken these laws resulting in increased damage to the environment.

This project's goals are to explore options for incorporating adaptive management into environmental laws and regulations, specifically the National Environmental Protection Act (NEPA). The project will engage experts from around the country and utilize case studies, both existing and future cases, to explore solutions.

The intern's role in the project would include background research, performing analysis and case studies on adaptive management, specifically as it has been or could be applied to environmental laws and regulations, such as NEPA.

The individual selected for this internship should have knowledge of performing literature reviews and be familiar with scientific databases. He/she should be willing to research and summarize literature on adaptive management and other related topics to produce deliverables required to meet the overarching goal. The individual should have a basic knowledge of key environmental laws and regulations, specifically NEPA. A general understanding of Google Scholar and Microsoft Office is also highly encouraged.

The intern will be mentored by the Science Policy Director and other members of the Mississippi River Delta Science Committee. The individual will also be expected to communicate with experts from across the country in a professional manner. He/she will be expected to work in a team environment that consists of multiple disciplines and expertise to gain an appreciation for varying backgrounds that work together to support a common outcome.

Key Responsibilities

Tasks will include but are not limited to:

- Research on adaptive management and its role and application in the NEPA process.
- Provide review of existing adaptive management programs and identify benefits and challenges of various approaches.
- Research existing case studies on adaptive management and NEPA.
- Assist with the identification of existing challenges and develop solutions.
- Work with experts from across the country to discuss and vet various solutions.
- Develop future examples/case studies.
- Work with the MRD Science Committee, as well as legal and policy experts in the MRD, to further refine recommendations and case studies.
- Investigate grant opportunities and write drafts of grant proposals for next steps in the project.
- Monitor new research and literature as it's released to present the latest science to the team.
- Synthesize past and current research on adaptive management and topics pertaining to it.

Qualifications

- Demonstrates interest in literature research and reviews as well as working with an interdisciplinary team.
- Coursework in environmental science, policy, and management.
- Experience in scientific literature research and journals along with knowledge in environmental management and policy.
- Highly proficient in Google Scholar, Google Drive, Microsoft Office and scientific databases/journals.
- Excellent written and oral communication skills.
- Must be well organized, motivated, and detail-oriented.
- Ability to multi-task, prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

5) **Atkinson-EDF Summer 2017 Intern:**

Finding Environmental Solutions through Data Science

Oil & Gas, Climate & Energy Program (**San Francisco, CA** or **New York, NY**)

Reports to

Beth Trask (San Francisco, CA)

Director, Natural Gas Compliance and Performance Strategies, Oil & Gas

OR

Adam Peltz (New York, NY)

Attorney, Oil & Gas

Overall Function

EDF's Oil & Gas Program works to reduce the impacts of the fossil fuel industry on air, water, climate, and communities across the U.S. and globally. This Atkinson Summer Intern will be a key team member in a new initiative called "Democratizing data in the oil and gas industry." We aim to leverage the massive volumes of data on U.S. oil and gas activities currently being collected (and largely not used) by state and federal agencies, with the goal of increasing transparency; engaging communities; encouraging greater industry accountability and better corporate behavior; and, most importantly, leveraging data to solve environmental problems.

The intern will contribute to key analytical projects that will be tailored to his/her interests and skills set. Potential projects include analyzing well records and incident reports from a major oil & gas producing state (e.g. Colorado, Pennsylvania, etc.) to evaluate and pinpoint sources of environmental harm and opportunity for reducing impacts; developing demographic and risk profiles of communities in oil and gas-producing regions; and supporting efforts to improve data accessibility and transparency for researchers, communities and the general public.

In support of his/her projects, the intern will be encouraged to collaborate with experts across EDF, including scientists, engineers, policy experts, economists, and communicators for guidance and brainstorming. The intern will also have the opportunity to work closely with our Marcomm team to publish the results of his/her work on EDF's *Energy Exchange* blog.

Key Responsibilities

Tasks will include but are not limited to:

- Identifying and collecting relevant public and academic data sets. Perform data cleaning and descriptive statistics.
- Develop data visualizations (charts, maps, etc.) to present findings.
- Conducting research on topic relevant to the data such as industry environmental performance practices, reporting, and compliance; and state regulatory agency enforcement practices.
- Prepare written documentation including memos, presentations, factsheets, etc.

- Provide additional analytical and other project support to the team.

Qualifications

- A demonstrated interest in both data and environmental protection.
- Strong analytical skills and previous experience (including through coursework and academic projects) in working with large, complex datasets. A comfort level with performing basic, descriptive statistics is needed.
- A strong technical fluency in Excel is required. Some experience working in R, STATA or related application is beneficial.
- Coursework in spatial analytics and/or some experience with a GIS application (ArcGIS, ESRI) is not required, but would be a strong asset. Opportunities to take an online course in GIS applications will be made available to strengthen these skills.
- Excellent written and oral communication skills.
- Must be well organized, motivated, and detail-oriented.
- Ability to multi-task, prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

6) Atkinson-EDF Summer 2017 Intern:

Agricultural Greenhouse Gas Markets-Working Lands Conservation Finance

Agricultural Greenhouse Gas Markets, Ecosystem Program (San Francisco, CA)

Reports to

Robert Parkhurst

Director of Agricultural Greenhouse Gas Markets, Ecosystems Program

Overall Function

EDF's Ecosystems Team works with farmers, ranchers, and forest owners to enhance environmental management practices on private lands throughout the U.S. The 408 million acres of cropland and 614 million acres of rangeland in the U.S. (Nickerson, 2007) offer immense potential to reduce emissions, improve health and increase carbon sequestration of soils, and protect valuable habitats. Our team creates policies, protocols and infrastructure to support California's landmark cap-and-trade program, which has built a \$2 billion market for working landowners. We turn these policies into economic incentives for producers to adopt environmentally-beneficial practices, and then work directly with the producers to help them implement the practices.

Philanthropic and government funding is inadequate to provide the incentives to implement practices that help people and nature thrive on working lands. To address this need, EDF is partnering with Encourage Capital on a USDA Conservation Innovation Grant to establish a Working Lands Investment Fund. The Fund will stimulate private capital investment and confidence in agricultural conservation and guarantee compensation to producers who implement climate smart agricultural measures and to stimulate investment by private capital markets.

Through this effort, our team has identified a key opportunity for private finance to support agricultural conservation, but we suspect that many more exist. The goal of this internship is to survey and provide a detailed understanding of the impact investing landscape (financial institutions, foundations, nonprofits, pension funds, fund managers, individuals, insurance companies) and draft a plan to increase their involvement and confidence in emerging markets (with a focus on working lands-based opportunities). Assisting EDFers working on conservation finance, the Intern will conduct a deeper investigation into climate smart agriculture and green infrastructure for their potential to provide significant financial and environmental returns. Candidates should have experience and/or demonstrated interest in environmental economics, social impact investing, conservation and agriculture. A preference will be given to candidates with training or education in finance, accounting, statistics or environmental economics.

The Agricultural Greenhouse Gas Markets team will provide mentorship opportunities throughout the internship. The Intern will have the opportunity to interface and work with progressive agricultural producers, cutting edge scientists, and leading climate change policy experts. The Intern will be exposed to key actors within California's cap-and-trade market and have access to EDF's conservation finance, habitat exchange and climate policy experts. The Intern will be encouraged to pursue other professional development opportunities of most interest to him/her. Additionally, the Agricultural

Greenhouse Gas Markets team will support the Atkinson Intern's attendance at events hosted by the Climate One forum or related finance events.

Key Responsibilities

Tasks will include but are not limited to:

- Research the state of conservation finance investment in climate smart agriculture for greenhouse gas reductions and sequestration.
 - Create a prioritized list of key stakeholders (financial institutions, foundations, nonprofits, pension funds, fund managers, individuals, insurance companies, etc.) that will drive development in conservation finance opportunities for working lands.
 - Draft a plan for outreach and engagement with key stakeholders that could enhance involvement and confidence in conservation markets.
- Research and write a report that summarizes the potential for developing financing projects to support agricultural sustainability, through innovative mechanisms such as green bonds and environmental, social and governance (ESG) investing.
- Present on key findings to internal EDF Ecosystems and Corporate Partnerships teams.
- Contribute to review of economic and financial model deliverables for Working Lands Investment Fund Conservation Innovation Grant.

Qualifications

- Demonstrated interest and knowledge of environmental markets and agriculture.
- Coursework in environmental economics, finance, statistics or accounting.
- Experience with Excel and other financial analysis tools.
- Excellent written and oral communication skills.
- Well organized, motivated, and detail-oriented.
- Ability to prioritize and meet deadlines.
- Ability to work in a team setting and ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

1) Iscol-EDF Summer 2017 Intern:

Adaptive Management of Habitat Exchanges

Habitat Exchanges, Ecosystems Program (**Washington, DC**)

Reports to

Advisor:

Ted Toombs

Scientist, Ecosystems Program

In-Resided Advisor:

Doria Gordon, Ph.D.

Lead Senior Scientist, Office of the Chief Scientist

Overall Function

Habitat Exchanges are a market-based mitigation framework for creating economic incentives to restore declining species habitat. A fundamental principle in Habitat Exchange design is to adaptively manage the programs for continual improvement over time. The Intern will work closely with EDF scientists and managers to research and analyze adaptive management tools, processes and approaches that could best fit within the structure of Habitat Exchanges. The Intern will deliver research on existing processes to inform the development of a generic adaptive management template for Habitat Exchanges.

Successful candidates will have a strong technical background in conservation biology and planning and/or natural resource management, together with specific experience on stakeholder engagement and the implementation and/or evaluation of monitoring practices and adaptive management processes for conservation programs. The intern will deliver a research report on the available adaptive management approaches for conservation programs and contribute to the understanding of adaptive management tools used under contexts similar to that of Habitat Exchanges; as well as design and develop a generic adaptive management template for Habitat Exchanges.

The intern will be located in EDF's Washington, D.C. office, and have ample opportunity to interact daily with EDF scientists and program staff. D.C. offers a wealth of opportunities for networking and learning on a range of issues, which the Intern would be encouraged to pursue as an opportunity to expand his/her professional development.

Key Responsibilities

Tasks will include but are not limited to:

- Research, analyze and synthesize information related to existing adaptive management tool, processes and approaches for species conservation programs.
- Engage with conservation professionals from other organizations to better understand current adaptive management practices.
- Synthesize results into a report and supporting presentation.
- Work closely with staff scientists to determine how the developed research product can best inform the design of a generic adaptive management template.
- Contribute to writing the adaptive management template.

- Provide research support to EDF scientists on adaptive management issues.

Qualifications

- Undergraduate or graduate student with demonstrated interest in and technical knowledge of conservation program design and planning, conservation biology, and/or natural resource management.
- Coursework or experience on: stakeholder engagement, implementation and/or assessment of monitoring and adaptive management approaches for conservation strategies, implementation of tools and development of assessments inherent to monitoring and adaptive management processes (e.g., predictive and decision models, etc.)
- Highly proficient in accessing and synthesizing scientific literature, conducting internet-based research, using basic Microsoft Office software, and other relevant computer skills.
- Experience with thinking through and communicating about complex conservation issues
- Excellent written and oral communication skills.
- Must be well organized, self-motivated, and detail-oriented.
- Ability to prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrated initiative and problem solving skills.

2) Iscol-EDF Summer 2017 Intern:

Marketing & Communications Intern: Sustainable Food Production

Supply Chain Team, EDF+Business (New York, NY)

Reports to

Rick Velleu

Manager, Marketing & Communications

Overall Function

EDF pioneered the NGO/corporate partnership model, and over the past twenty years has worked with leading companies to reduce the environmental impacts of products and services and incorporate environmental considerations into business decisions. Our projects are designed to achieve significant environmental results, generate business benefits for our corporate partners, and create new industry-wide best practices. For more information on our work and examples of past and current partnerships, visit www.edf.org/approach/partnerships/corporate.

EDF's Supply Chain team recently launched "The Business of Food," a blogging site aiming to reach corporate audiences with relevant content in the intersection of environment and agriculture. Content includes deforestation, fertilizer efficiency, soil health, food waste reduction, and other pressing topics. The Supply Chain Communications intern will focus on building EDF's thought-leadership through effective communications to corporate audiences around environmental and social issues in food and agriculture. In particular, the intern will conduct communications research, determine effective messages to reach our target audiences, write and edit blogs for "The Business of Food," create social media content for the team, and assist with asset creation in support of overall goals.

The ideal candidate will be interested in environmental communications, corporate sustainability and/or agriculture and will have experience in journalism, blogging, design or social media. Based on the intern's interest and team needs, we will determine a set of deliverables that will provide the best professional development for the intern and meet critical team needs. Potential deliverables include: blog posts for the Business of Food site; communications research on helpful statistics and messages to use in communications assets; a social media landscape analysis with the major players in the food and ag space that we should be using to build our networks.

The intern will be an integral part of a dynamic and entrepreneurial team that focuses on corporate leadership and audacious environmental achievement. Mentorship will be provided to the intern through Rick Velleu, Marketing and Communications Manager, and Katie Anderson, Project Manager, Supply Chain. EDF will provide networking opportunities to learn more about EDF's initiatives across the organization. Other professional development opportunities will be provided based on the intern's interest and professional goals.

Key Responsibilities

Tasks will include but are not limited to:

- Research on major players in journalism and social media that we should be engaging with on our priority issue areas.
- Research on messages, statistics and stories that would be effective to use in our communications materials.
- Development of blogs for the Business of Food.
- Provide overall communications support to the team working on the intersection of food, agriculture and business.

Qualifications

- Demonstrated interest in environmental communications, corporate sustainability, and/or agricultural sustainability.
- Experience with social media, blogging, journalism, and/or design.
- Excellent written and oral communication skills.
- Must be well organized, motivated, and detail-oriented.
- Ability to multi-task, prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

3) Iscol-EDF Summer 2017 Intern:

Innovative Air Pollution Monitoring

Oil & Gas, Climate & Energy Program (Austin, TX or San Francisco, CA)

Reports to

David Lyon, Ph.D. (Austin, TX)
Scientist
Climate & Energy

OR

Beth Trask (San Francisco, CA)
Project Director
Oil & Gas Program

Overall Function

Communities in oil and gas production areas may be subject to health impacts from exposure to hazardous air pollutants such as volatile organic compounds (VOCs). Previous studies on the quantification and attribution of O&G VOC emissions have been constrained by the high cost of VOC sensors, co-occurrence of other emission sources (e.g., vehicle exhaust), and complexity of atmospheric dispersion in urban and suburban areas. This project, developed jointly by teams at EDF and Cornell, will evaluate innovative sensors and monitoring approaches that can be used by citizen groups to collect scientifically-rigorous data on the concentration and emission rates of O&G pollutants including VOCs and methane.

Interns will research existing and emerging sensor technologies and measurement approaches and evaluate their potential for accurately quantifying the exposure of communities to O&G air pollutants. Interns are expected to deliver a report to EDF staff and Cornell faculty summarizing the state of the technology and suggestions for future research. Interns may also work with EDF and Cornell researchers and citizen groups to design and launch measurement campaigns in affected communities.

Key Responsibilities

Tasks will include but are not limited to:

- Identify, research, and assess innovative VOC sensors and measurement approaches.
- Assist EDF and Cornell researchers and community groups in the design of scientifically-robust air pollution monitoring approaches.
- Provide technical support to the EDF O&G and Health teams.

Qualifications

- Demonstrated interest in air pollution sensing and community monitoring.
- Coursework in atmospheric science, physics, or engineering.
- Experience in air dispersion modeling and/or sensor technologies.
- Excellent written and oral communication skills.
- Must be well organized, motivated, and detail-oriented.
- Ability to multi-task, prioritize and meet deadlines.
- Ability to work in a team setting and have the ability to work independently when projects are due.
- Demonstrate initiative and problem solving skills.

Employment and Application Information

Term

10 weeks during the summer.

Hours

The position is full-time (35 hours/week).

Compensation

Compensation is \$5,000 for the summer term.

Application Materials – Due by Noon on Wednesday March 1, 2017

- Submit applications by email to Paula Euvrard, pge3@cornell.edu.
- Attach your application as a **single PDF file**.
- Application must include a **cover letter** addressed to EDF with a brief explanation of your qualifications and interest, followed by your **CV** or **resume**.
- Optional: you may include a brief writing sample (in the single PDF file).
- You must attach a **separate** PDF file for each internship, if applying for more than one.

Due to the volume of employment applications and queries received, we are unable to respond to each application individually. Applicants will be contacted directly if selected as a candidate.

Environmental Defense Fund is an Equal Opportunity Employer