



DAVID R. ATKINSON CENTER
for a Sustainable Future



Atkinson Center–EDF Summer 2018 Internship

Big Data/Energy Analyst Intern

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

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. Connect with us on [EDF Voices](#), [Twitter](#) and [Facebook](#).

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.

Atkinson Summer 2018 Intern

Project/Job Title: Big Data/Energy Analyst Intern

Program: Midwest Clean Energy

Location: Chicago, IL

Description

Clean energy is a critical part of the race to clean up our nation's power sector, which accounts for 40% of U.S. carbon emissions. Modern sensors, controls, and meters are revolutionizing electricity markets, producing enormous amounts of data that can play a sizable role in lowering carbon emissions from the power grid. Energy use data has traditionally been held closely by utility companies. Environmental Defense Fund (EDF) has been trying to access it for years, to help answer important policy questions, unlock innovation, make our grid smarter and cleaner and save customers money. Using this data to guide sound policy, we can greatly expand the amount of clean energy on the electric grid, and drive down carbon pollution while keeping electric bills low. Stakeholders — rooftop solar companies, energy efficiency providers, non-profit organizations, lenders, researchers, cities — can use the data to identify specific opportunities, such as which neighborhoods and blocks have the greatest potential for money- saving clean energy projects. Private entrepreneurs can take advantage of the new information to develop innovative services and strategies to problems that may not even be visible without such data. Grid operators can use it to plan for increased solar and wind energy, and to make the grid more efficient, without compromising reliability or affordability. Non-profits such as EDF can use it to explore policies to achieve a low-carbon grid that benefits both customers and the environment. We will develop ideas and evidence to support successful advocacy for marketplaces and policies that reduce climate pollution. And we will ensure that innovations developed by all parties will lead to a cleaner, greener, more reliable, and more affordable power grid.

Reports to

Dick Munson, Senior Director, Midwest Clean Energy

Overall Function

Under supervision of the Midwest Director for Clean Energy, the PEI Intern will work closely with economists, lawyers, media and program staff across the organization to advance EDF Clean Energy goals in Illinois and the Midwest. Overall, the PEI Intern will focus on legislative and regulatory barriers to clean energy, with a focus on analyzing newly available energy-usage data in order to develop more effective policies and rate structures. This engagement will help EDF advance two policy issues. First, the intern will help evaluate the monthly savings or bill increases Illinois customers would see from a suite of dynamic energy pricing regimes, including theoretical Time-of-Use (TOU) rates and ComEd's current Residential Real-Time Pricing (RRTP) program. Second, the intern will help evaluate alternative EV rate designs in order to expand clean-energy electrification and explore the potential for vehicle-to-grid services.

Key Responsibilities

EDF seeks to use this energy-usage information to empower stakeholders, including entrepreneurs, utilities and consumers, to create and employ new energy services that lead to greater efficiency, lower costs, healthier air and less pollution. Specifically, the Fellow will work in Chicago with EDF's Big Energy Data team to:

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- Conduct analysis to answer key consumer questions using real data
- Build public-facing tools on pricing, rate design, renewable energy and other issues to allow researchers and the public to interact with the data to explore the effects of changing variables
- Identify policies that encourage consumers to make efficient and clean energy choices
- Publicize results through reports, articles, conference presentations, advocacy and targeted outreach
- Incorporate research findings into advocacy to support climate goals
- Prompt private-sector firms to utilize the data to identify clean energy opportunities
- Expand big data access to other states; New York is already considering this approach as part of its Reforming the Energy Vision (REV) process. Discussions are under way in California, Minnesota and Ohio and, with additional resources, we would advocate for others to follow the Illinois example.

Qualifications

- Demonstrated interest in clean energy, policy analysis, data management.
- Coursework in environmental policy, statistics, and analysis.
- Experience with a variety of data-analysis software.
- Highly proficient in data processing and policy analysis.
- 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.

Location

Chicago, IL

Term

10 weeks during the summer

Hours

Full-time (35 hours/week)

Compensation

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

Application Materials – **Due by Noon on Monday March 12, 2018**

- Submit applications by email to **Gladys Brangman** (geb99@cornell.edu)
- Attach your application as a **single PDF file**, including:
 - Cover letter addressed to EDF with a brief explanation of your qualifications and interest
 - Brief writing sample (1-3 pages)
 - Your CV or resume

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- Save the PDF file with the following naming convention:
 - **2018-EDFInternApp-BigData-YourLastName.pdf**
- You must submit a separate application 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 where an applicant's qualifications are considered without regard to race, color, religion, sex, national origin, age, disability, veteran status, genetic information, sexual orientation, gender identity or expression, or any other basis prohibited by law.