Job Title: Graduate Fellow - Machine Learning and Remote Sensing to Reduce Methane Emissions

Location:
- Summer: Denver, CO
- Academic Year (optional): 33 North LaSalle Street, Chicago, IL

Who We Are
The University of Chicago Energy & Environment Lab (E&E Lab) partners with agencies at the local, state and federal level to identify, rigorously evaluate, and help scale programs and policies that reduce pollution and improve environmental outcomes, while ensuring access to reliable and affordable energy. One of the E&E Lab’s main projects leverages machine learning (ML) and novel remote sensing to reduce oil and gas methane emissions, in partnership with Colorado state regulators. The project is funded by the Center for Data and Computing (CDAC) at the University of Chicago.

Job Summary
The E&E Lab is seeking a Graduate Fellow with strong research, methodological, and programming skills to support our ML and remote sensing research project with Colorado regulators. The fellow will work on the development of machine learning models and other forms of data analysis as needed. The minimum commitment is a summer internship in Denver, Colorado for a period of approximately 8-10 weeks, with a flexible summer start date. The fellowship also offers an opportunity for part-time academic year employment, starting in the Winter or Spring quarters of 2020, and/or continuing into the Fall 2020 quarter and later.

The Fellow will receive a travel stipend, and gain membership to CDAC’s graduate student cohort. The CDAC cohort consists of graduate researchers in data science and related fields, and offers speaker series and other programming for its members.

Responsibilities:
- General coding, review, and cleaning of data
- Development of machine learning models to predict oil and gas emissions
- Cleaning and analysis of administrative data and high-resolution satellite data
- Other forms of data analytics, statistical analysis, and modeling as needed
- Close communication between researchers in Chicago and state regulators in Colorado

Job Requirements
Competencies:
- Advanced programming and analytic skills, with experience developing machine learning models
- Experience with at least one statistical analysis language; STATA, R, or Python strongly preferred
- Strong verbal and written communication skills, with the ability to effectively communicate with a broad array of stakeholders, including government regulators and academic researchers
- Strong initiative and a resourceful approach to problem-solving and learning
- Ability to work both independently and as part of a team
- High attention to detail and organizational skills
• Knowledge of environment and/or energy policy issues preferred

Education:
• Significant progress towards a graduate degree at the University of Chicago in Computer Science, Analytics, Economics or similar quantitative field
• Research experience in an academic setting preferred

Documents Required:
• Resume
• Cover Letter
• Academic transcript(s)

Successful candidates will be paid a competitive salary. Applications will be reviewed as they are received, with rolling decisions being made. Due to the high volume of applications, only candidates shortlisted for an interview will be contacted.

To apply, please complete the form and upload your resume, cover letter, and transcript at http://bit.ly/ee-grad-fellow. Questions and inquiries about the position should be directed to eelab.hiring@gmail.com

All applicants must be authorized to work in the United States.

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Staff Job seekers in need of a reasonable accommodation to complete the application process should call 773-702-5800 or submit a request via Applicant Inquiry Form.

The University of Chicago's Annual Security & Fire Safety Report (Report) provides information about University offices and programs that provide safety support, crime and fire statistics, emergency response and communications plans, and other policies and information. The Report can be accessed online at: http://securityreport.uchicago.edu. Paper copies of the Report are available, upon request, from the University of Chicago Police Department, 850 E. 61st Street, Chicago, IL 60637.