POSTDOCTORAL FELLOW

Improving Adaptation to Climate Change in Interconnected Energy Infrastructures
PI: Professor Michael Craig
School for Environment and Sustainability
Industrial and Operations Engineering
University of Michigan, Ann Arbor

Start date: Flexible
Term: One year, full-time, with optional 1-year extension
Location: Ann Arbor, Michigan (flexible)
Salary: $60,000 (plus benefits) (negotiable)

Professor Craig invites applications for a one-year Postdoctoral Research Fellowship. The fellow will lead interdisciplinary projects that aim to guide deployment of energy infrastructure for improved climate adaptation and mitigation outcomes while furthering other objectives, including equity and human wellbeing. Funding for this position allows for flexibility in specific research questions pursued. Areas of initial interest include applying risk analysis methods for dealing with deep climate-related uncertainty; understanding the relative importance of climate and technology uncertainty in driving investment decisions; and quantifying interactions between macro- and micro-scale investments in improving outcomes across weather stress events. The fellow's work is expected to yield high-impact peer-reviewed publications, form the basis for large interdisciplinary grant proposals, and generate real-world impacts and insights for policymakers.

The successful candidate will join a cooperative group of postdoctoral, PhD, MS, and undergraduate researchers at the School for Environment and Sustainability and the Department of Industrial and Operations Engineering, including Prof. Craig's ASSET Lab. The fellowship will offer numerous professional development opportunities, including mentorship of students, collaboration on other research projects, and collaborative proposal writing. Opportunities will be tailored based on the fellow's career goals.

Applicants should hold a PhD in a STEM field, with preference given to degrees in climate science, energy systems, engineering, operations research, risk analysis, and related fields. Required and desired training, experience, knowledge, and skills are:
- Formal training and experience with computational modeling and optimization is required
- Strong written and oral communication skills are required
- Strong programming skills (e.g., R, Python, and/or MATLAB) are required
- Formal training and experience with social sciences, health sciences, and/or economics is preferred

Applications will be considered on a rolling basis until the position is filled. To apply, please submit one PDF with the following to Prof. Craig at mtcraig@umich.edu with [OPEN] in the subject line.
- Cover letter describing your relevant experiences and publications and preferred start date
- Curriculum vitae
- Names and contact information (title, affiliation, email address, and phone number) of 2-3 referees

The University of Michigan is an equal opportunity employer.