

## Postdoctoral Research Fellowship

University of Michigan Department of Electrical Engineering & Computer Science (EECS) and School of Natural Resources & Environment (SNRE)

Start date: Fall 2014 (ideal), Winter 2015 (possible)

Term: 1 year

We are looking for a postdoc interested in interdisciplinary work at the intersection of electric power systems and life cycle assessment. The goal of the project is to assess the environmental impacts of providing power systems reserves with demand response and distributed energy storage. Strong programming skills and comfort with formulating and solving optimization problems is a must. The project is a collaboration between the Department of Electrical Engineering & Computer Science and the School of Natural Resources & Environment at the University of Michigan, and it is expected the postdoc will interact with professors, peers, and students in both areas.

This position is funded, in part, by a University of Michigan Energy Institute (UMEI) Partnership for Innovation in Sustainable Energy Technologies (PISET) Grant. See <http://energy.umich.edu/funding-partnerships/partner-umei> for more information on this program. UMEI pulls together expertise from over 130 faculty affiliates working in 19 academic departments, conducting around \$50 million in basic and applied research each year to develop science, technology and policy solutions to pressing energy challenges.

At the start of the appointment, candidates should have a PhD in engineering (e.g., electrical, mechanical, systems) or an interdisciplinary field (e.g., natural resources, engineering & policy) plus strong technical skills including programming (MATLAB, CPLEX), modeling, simulation, and optimization. Familiarity with Monte Carlo analysis, life cycle assessment, electric power systems, and electric power markets is also beneficial.

For more information please contact: Prof. Johanna Mathieu (EECS) at [jmath@umich.edu](mailto:jmath@umich.edu) and/or Prof. Jeremiah Johnson (SNRE) at [jxjohns@umich.edu](mailto:jxjohns@umich.edu).