

## **Postdoctoral Researcher: Energy Systems Modeling and Analysis**

### **Position Description:**

TWO POSTDOCTORAL POSITIONS are available immediately in the University of Texas at Austin Center for Next Generation Photovoltaics ([www.nextgenpv.org](http://www.nextgenpv.org)). The primary tasks of each postdoctoral fellow will involve modeling and analysis to support future energy requirements for the US Navy.

Research will be carried out to support Navy engineers and R&D managers in analyzing one or more of the following: 1) energy systems at the level of micro grids for expeditionary units through installations, 2) financial and economic analysis of investments in energy systems, and 3) option value / value of information with respect to R&D programs. This work includes theoretical and publishable research in value of information for R&D as well as instantiating the models with data from Navy and other sources and applying them to specific cases and reporting results.

The role will involve collaboration with faculty advisors from the Energy Academic Group at the Naval Postgraduate School (NPS) and with Navy engineers.

### **Qualifications:**

The successful candidate must have a demonstrated record of publications and a PhD at the time of the appointment, preferably in mechanical, electrical, or general engineering with an interest in economic or financial analysis; or a PhD in economics, operations research or decision science with an interest in energy technology and systems.

The position requires outstanding critical thinking and analytical skills. Programming and spreadsheet modeling are essential, as well as strong communication skills with a high proficiency in written and spoken English. The ideal candidate will have a strong work ethic and ability to prioritize multiple tasks and follow through in a timely manner, while working independently and as an effective team member. The ability to lead, coordinate, and/or supervise the work of others, and experience in interdisciplinary research are advantageous. The candidate is expected to travel several times per year, primarily domestically. Prior Military, especially Navy, or defense civilian experience is preferred, but not required. Preference will be given to candidates with experience in photovoltaics.

**Application Deadline:**

**The posting will close on 20 April 2015.**

Candidates should submit a CV, reprints of selected publications, a brief statement of research skills, education and professional experiences, and contact information for at least three references electronically to [jon.peck@utexas.edu](mailto:jon.peck@utexas.edu)