

Seeking Postdoctoral Scholar for NSF-funded “Smart and Connected Kids for Sustainable Energy Communities” project

PIs: Hilary Boudet (Oregon State University); Ram Rajagopal (Stanford University); Mahnoosh Alizadeh (University of California, Santa Barbara)

Job Description

This interdisciplinary project, funded by the National Science Foundation, aims to understand and transform how intelligent systems, visualization, smart data and people interact. We seek a postdoctoral scholar to help with research design, implementation and analysis. The project will employ a series of energy use interventions, engaging children, youth and their families in Fremont, California. The interventions will take advantage of new smart grid technologies, in particular, high-resolution energy data now available via smart metering and increasingly smart devices and appliances. Smart meter data, participant surveys, and randomized experiments will also be used to gauge the program's effectiveness. Community partners include the Girl Scouts of Northern California, Chai Energy, Ohlone Community College, and the City of Fremont.

The successful applicant holds (or will hold by the time of appointment) a PhD in one of a wide variety of fields related to energy and environmental studies, including behavioral sciences, computer science or engineering. We are particularly interested in candidates with the following experience(s):

- Designing and implementing energy and/or sustainable behavior interventions, particularly with youth audiences;
- Using applied statistics and data analysis in Python and R to both create visualizations of high resolution energy data from smart meters *and* assess program effectiveness, particularly experience with data mining (machine learning) and panel data analysis;
- Designing and analyzing mobile and/or web-based applications for sustainable behavior interventions, particularly with youth audiences; and/or,
- Engaging community members and partners in sustainable behavior interventions.

Preferred Start and End Dates

July 1, 2018 for one year with possible extension to two years

Application

Please send application materials to Hilary Boudet (hilary.boudet@oregonstate.edu) by February 2, 2018, including:

- Cover letter explaining interest and qualifications for position
- CV
- Names and addresses of two or more references

Location

Stanford and/or Fremont, California