



Energy Futures Program
STEPS+, Institute of Transportation Studies
University of California, Davis

POSTDOC RESEARCHER POSITIONS

Supervisor: Dr. Lewis Fulton, supervisor

Posted: January 2019

The Energy Futures Program of the University of California, Davis is recruiting up to **three** talented postdoctoral researchers to support the growth of the program and expand its research activities on future mobility with a number of comprehensive/multidisciplinary efforts. In particular, we are looking for two experts with strong scientific background, good communication skills, and solid experience in one of the following areas:

1. Spatial analysis of transportation systems, including travel demand, infrastructure needs and locations, emissions impacts, and sourcing of fuels and feedstocks. Knowledge of optimization systems and GIS systems will be a plus
2. Global energy modeling using a major Integrated Assessment model such as GCAM or Message, focused on transportation and electric power sectors.
3. Advanced biofuels for light and heavy duty vehicles: LCA, supply and cost analysis in the CA and US context, 2020 through 2050

Candidates should have completed a doctoral degree in one of (depending to some degree on the specific position of interest): Civil Engineering, Transportation Planning, Computer Science, Economics, Energy resources, Geography, Operations Research or a related field at the time of hire. Candidates with strong multidisciplinary skills covering more than one of the areas listed above are particularly encouraged to apply. Extremely well-qualified candidates with slightly

different qualifications and/or research focus might be also considered under special circumstances.

Other **essential** qualifications include an excellent track of scientific publications; excellent English-language writing skills; ability to meet deadlines, work well with minimal direction and with a team, and produce high-quality research outputs; good time management and recordkeeping. **Desirable** qualifications include solid presentation skills and experience with fundraising and maintaining rapport with funding agencies.

The selected candidates will join a growing team working on research on future mobility at the University of California, Davis. They will work with Dr. Fulton and other researchers in the program at projects related to changes in travel behavior and the impacts of new transportation technologies, spatial and integrated modeling, and a range of analysis topics related to new vehicle technologies, new fuels, and travel dynamics. Other duties commensurate with the researcher's qualifications will also be assigned. There is also expected to be considerable scope for the researchers to conduct independent work, including advanced analyses of other data and preparation of papers for publication in scholarly journals, as well as to be involved in other research activities directed by Dr. Fulton and other UC Davis colleagues.

Screening of applications will begin immediately, and recruitment will continue until the position is filled. Interviews with applicants will be scheduled via phone or videoconference, and in-person informal interviews will be held during the TRB 2019 meeting.

We offer a competitive salary and generous benefits, including health insurance, retirement plan, vacation and sick leave, and support to a successful career in scientific research. The successful candidates will be encouraged to submit the output of their work to scientific conferences and professional meetings. Pending acceptance of the work, and funding availability, they will receive support for the attendance of these meetings.

The University of California, Davis is an Equal Opportunity/Affirmative Action employer, and applications from women and under-represented minorities are encouraged.

Applicants should submit a cover letter, curriculum vitae, copy of one selected publication and names/contact information of three references in a single PDF file to: lmfulton@ucdavis.edu Please format the file name as {lastname_initials}_EFP_postdoc2019.pdf and include "Postdoc Search" in the subject line of the e-mail.

Energy Futures Program and UC Davis

The Energy Futures Program is a rapidly growing research and policy program in the Institute of Transportation Studies of the University of California, Davis. It grows out of the STEPS program and focuses on medium/long term transportation energy transitions for California, the US and worldwide. The program receives support from a range of government and industry partners, planning agencies and research foundations, and works in close cooperation with the federally-funded National Center for Sustainable Transportation and the other research programs at UC

Davis. For additional information on the Energy Futures Program and on ITS Davis, please see EnergyFutures.ucdavis.edu and its.ucdavis.edu.