

Postdoctoral Position in Agricultural Greenhouse Gas Modeling

A postdoctoral position on greenhouse gas emissions modeling for California dairy farms is available on a multi-campus project funded by the University of California Office of the President Lab Fees program. The postdoc will be jointly advised by Professor Whendee Silver at UC Berkeley and Professor Francesca Hopkins at UC Riverside, with an option for the individual to be based at either campus (Dept. of Environmental Science, Policy, and Management in Berkeley, CA, or Dept. of Environmental Sciences in Riverside, CA). We are looking for a highly motivated, independent researcher with experience in biogeochemical process modeling to model methane and N₂O emissions from manure management on California dairy farms. Field data for drivers of mechanistic models (e.g., temperature, moisture, O₂) and fluxes of CH₄ and N₂O will be measured for manure handling systems at several dairies in collaboration with other UC campuses (LANL, LBNL, UCI, UCD). The postdoc will use these observations along with process-based models (e.g., Manure DNDC, DayCent) to examine predicted outcomes of management changes, and scale emissions up to the region. A major goal of the project is to compare different measurement techniques; hence, he/she will compare these process-model results with regional observations to determine the best strategies for future emissions monitoring.

Qualifications: The successful candidate should hold a PhD degree in agricultural science, soil science, soil/environmental chemistry, geochemistry, or related fields. He/she should be experienced with biogeochemical process modeling, and publishing in peer reviewed scientific journals. Candidates must have received a PhD within the past five years from an accredited college or university.

Application contents:

- One page cover letter describing the applicant's research experiences and interests
- Curriculum vitae
- Names, addresses, email, and phone number for 3 references

Contact: Applications or informal inquiries can be sent to Dr. Francesca Hopkins at fhopkins(at)ucr(dot)edu with GHG POSTDOC as the subject line. UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification. The University of California is an Equal Opportunity / Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.