



EMORY  
UNIVERSITY

Department of  
Environmental Sciences  
Emory College of Arts and Sciences

**Postdoctoral Researcher at Emory University, Department of Environmental Sciences**

Join Dr. Emily Burchfield's research group, the [FACES Lab](#), as a Postdoctoral Researcher and join an interdisciplinary and trans-institutional [NSF-funded project](#) that is engaging stakeholders in three U.S. states to identify, model, and understand the emergent crops, technologies, policies, and on-farm realities likely to alter agricultural futures in each region.

The successful candidate will contribute to research in the following areas:

- Historical analyses of agricultural land use change in the U.S.
- Predictive modeling of future agricultural land use change in the U.S. under various stakeholder-informed scenarios.
- Co-creation of scenarios with stakeholders to refine predictive models and articulate model limitations.
- Advancement of socio-environmental modeling through iterative stakeholder engagement to better represent the human dimensions of future agricultural land use change.
- Identification of transition pathways—at multiple scales—towards agricultural futures desired by diverse stakeholders.

**Qualifications**

- Applicants must have a Ph.D. by the start date. Interdisciplinary backgrounds are encouraged, but candidates should have significant research experience at the intersections of agricultural systems and data science.
- Experience working with large geospatial datasets, particularly those that integrate social and environmental data.
- Demonstrated programming and statistical skills.
- Familiarity with agricultural systems in the U.S. Experience actively engaging with agricultural stakeholders is a plus.
- While no teaching is required, interest in mentoring talented undergraduates and developing innovative pedagogy at a leading liberal arts institution is encouraged.
- Ability to conduct high-impact independent and collaborative research.
- Excellent English language writing and communication.

**Start date:** August 1, 2024

**Term:** 1 year 1.00 FTE, renewable based on performance

**Location:** Atlanta, GA

**Duration:** The position will last one year, renewable for at least one additional year contingent on satisfactory progress.

**Salary:** \$62,000 (plus benefits)

**Institution:** Department of Environmental Sciences, Emory University

## About the FACES Lab

We study the interactions between Food, Agriculture, Climate, and Environment to support Sustainability (FACES). We believe that significant agricultural adaptation to climate change will be *necessary and inevitable*. We believe in leveraging this moment of necessary change to transition our agricultural systems towards more resilient, just, and sustainable futures. Our work integrates “big” geospatial data with “deep” qualitative and survey data to understand and support agricultural system transition at multiple scales.

## To Apply

- A cover letter describing interests and skills related to the job description. Please be specific and speak to any experience you have in (1) ML/predictive modeling, (2) geospatial analysis and programming (share links to code), (3) work in US food/agricultural systems, and (4) participatory work with and for stakeholders.
- A CV.
- A writing sample, ideally a journal publication relevant to this search.
- The contact information for three references. We will contact references for finalists selected for interviews.
- All materials can be submitted at <https://faculty-emory.icims.com/jobs/123794/post-doctoral-fellow---department-of-environmental-sciences/job>

Evaluation of applications will begin on March 1, 2024 and will be rolling after that. Only short-listed candidates will be contacted.