

Postdoctoral Fellow - Sustainable Transportation and
Spatial Data Science
Auburn University

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Posted Sep. 24, 2024, set to expire Feb. 6, 2025

Job Title	Postdoctoral Fellow - Sustainable Transportation and Spatial Data Science
Department	Department of Geosciences
Institution	Auburn University Auburn, Alabama
Date Posted	Sep. 24, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Geology/Geosciences - General
Job Website	https://www.auemployment.com/postings/48948

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Job Description

The EcoTran Lab in the Department of Geosciences at Auburn University is seeking a highly motivated and creative postdoctoral researcher to join our team. Working with Dr. [Luyu Liu](#), you will focus on cutting-edge projects aimed at improving sustainable transportation networks using advanced computational techniques, data analysis, and artificial intelligence. We seek candidates specializing in the following empirical topics: sustainable transportation (including public transit, biking, shared mobility, and walking), urban resiliency (e.g., urban heat and air pollution exposure), and mobility equity. We also desire candidates with skills in advanced programming, spatial data science, GIS, and GeoAI. Your research will contribute to the development of sustainable, smart, and resilient urban transportation systems.

EcoTran Lab, directed by Dr. Luyu Liu at Auburn University, is dedicated to advancing the field of urban transportation through innovative research and practical solutions. The lab focuses on integrating data science, AI, and GIS with transportation engineering to create sustainable and efficient

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urban mobility systems. With a strong emphasis on data-driven decision-making, EcoTran Lab is collaborating with a wide range of stakeholders to address the challenges facing modern cities.

This is a 1-year contract job with possible extension based on need, funding, and performance. We offer a competitive salary and benefits.

Key responsibilities include:

- Conduct original research on public transit performance and travel behaviors.
- Develop and maintain large-scale public transit database.
- Write and maintain Python and R codebase for transit routing and GIS operation automation.
- Generate and write grant proposals with Dr. Liu on various topics.
- Work with undergraduate and graduate students.

Interested candidates should submit the following documents:

- A detailed CV
- A 2-page cover letter outlining your research interests and future plan in 2 years
- Academic transcripts
- Contacts of three academic references
- Code sample or link to your GitHub/GitLab profile
- Two writing sample of your previous research work

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact