Post-doctoral Fellow – Nutrient Management, Greenhouse Gas Emission, and Hydrological Modeling
Auburn University

Job Title	Post-doctoral Fellow – Nutrient Management, Greenhouse Gas Emission, and Hydrological Modeling
Department	Biosystems Engineering
Institution	Auburn University Auburn, Alabama
Date Posted	Jan. 21, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Biomedical Engineering & Bioengineering
Job Website	https://www.auemployment.com/postings/50857
Apply By Email	

Job Description

Job Description Summary

A post-doctoral fellow position is available in the Biosystems Engineering Department at Auburn University, Auburn, AL. The post-doctoral fellow will work in the areas of nutrient management, hydrology, water quantity, and quality modeling. The primary responsibilities of this position include but are not limited to 1) evaluating the effectiveness of agricultural best management practices (e.g., biochar and other related soil amendments) to improve soil health, and water quality and mitigate greenhouse gas emissions, (2) using hydrological models to simulate the fate and transport processes of contaminants, (3) mentoring graduate students, (4) develop research proposals and peer-reviewed publications, and (5) present research results at conferences. The initial appointment period will be one year. However, depending on the funding availability and performance of the candidate, the position

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can be extended beyond one year. The expected start date is April 2025.

Minimum Qualifications

The minimum qualifications required for this position include a Ph.D. from an accredited institution in Agricultural or Civil Engineering, Soil Science, or hydrology-related field at time of employment. Basic knowledge in hydrological modeling (e.g., SWAT, APEX, HYDRUS) and nutrient management is desirable. The candidate should have a prior experience in statistical analysis, publishing peer-reviewed articles, and conducting chemical analyses of water and soil samples in a laboratory. The candidate selected for this position must be able to meet eligibility requirements for work in the United States at the time the appointment is scheduled to begin and continue working legally for the term of employment.

Desired Qualifications

Desired qualifications include previous experience in using analytical instruments such as AQ2 Discrete Analyzer, ICP-OES, and developing proposals for securing extramural funding.

Special Instructions to Applicants

Applicants must apply for the position electronically through **https://www.auemployment.com/postings/50701** and submit the following documents: 1) cover letter, 2) current curriculum vita, 3) copies of academic transcripts. When prompted during the online application process, please provide the names, phone numbers, and email addresses of three professional references. Only complete application materials will be considered. Active review of applications will begin on February 1, 2025, but the search will continue until the position is filled.

For questions regarding this position, please contact Dr. Jasmeet Lamba by email at **jsl0005@auburn.edu**.

Auburn University is a land-grant institution with a student enrollment of more than 31,500. The University provides instruction in approximately 70 academic departments and maintains graduate research and public service programs of a broad scope. The University is located in the city of Auburn in east-central Alabama near the metropolitan areas of Montgomery and Birmingham, Alabama, and Columbus and Atlanta, Georgia.

Contact Information

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Contact

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