Department of Soil Science
UNIVERSITY OF WISCONSIN–MADISON

Jingyi Huang (PhD)
Assistant Professor
Soil Sensing & Monitoring Lab
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Ph.D. Graduate Research Assistant in Soil Nitrate Transport Monitoring and Modeling, Department of Soil Science, University of Wisconsin-Madison

Description:

A Ph.D. Graduate Research Assistantship is available at Dr. Jingyi Huang's lab (https://soilsensingmonitoring.soils.wisc.edu/), Department of Soil Science, University of Wisconsin-Madison. This USDA funded project will focus on improved monitoring and modeling of nitrate transport in different soils and plants under various management practices (e.g., fertilization, irrigation) combining novel soil sensors and process-based models. The expected starting date for this position is September 1, 2022.

Requirements:

- An interest in soil, plant, and environmental sciences
- Previous experience of process-based models of water and solute transport in soils and/or soil-plant-atmosphere continuum (e.g., Hydrus, DSSAT, APSIM)
- Strong programming skills (e.g., R, Python, Fortran, Matlab)
- Demonstrated excellence in coursework, good written and oral communication skills, and the ability to work as a team member

Benefits:

- Research Assistantship will be provided for 3.5 years per University of Wisconsin-Madison guidelines (https://grad.wisc.edu/funding/graduate-assistantships/), which consists of stipends, tuition remission, and other benefits.
- The PhD candidate will work in a multi-discipline environment involving soil and environmental sciences, agronomy, horticulture, civil and environmental engineering, and electrical and computer engineering and will have the opportunity to engage with stakeholders across the state during the project.
- Madison is a great place to live. Want to be a Badger? Find out more from here: https://grad.wisc.edu/apply/

Apply:

If interested, please send a 2-page brief statement describing how your previous experience fits into the position and what you plan to work on for this project, along with your CV, transcripts, and contact information for three references to Dr. Jingyi Huang (jhuang426@wisc.edu).

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