

PhD Student and Graduate Research Assistant in Irrigation Engineering

Irrigation Research Laboratory (IRL) led by Dr. Sumon Datta within the Department of Biosystems & Agricultural Engineering at Oklahoma State University (OSU) is seeking a highly motivated PhD Student in the field of **Irrigation Engineering** for Summer 2026 intake.

Position Overview:

- **Degree Level:** PhD
- **Research Focus:**
 - Development and evaluation of Machine/Deep Learning (ML/DL) approaches for modeling multi-depth soil moisture (SM) and plant canopy temperature (CT) in irrigated fields to be used for irrigation scheduling.
 - Sensor engineering of low-cost integrated SM-CT sensing system
- **Responsibilities:**
 - Conduct research on irrigation technologies and water conservation methods
 - Collect and analyze data from field experiments and simulations
 - Prepare technical reports and contribute to publications.
- **Qualifications:**
 - Bachelor's degree in Electrical and Computer Engineering (preferred), Agricultural Engineering, Biosystems Engineering, or other closely related fields.
 - Master's degree in Electrical and Computer Engineering (preferred), Agricultural Engineering, Biosystems Engineering, or other closely related fields.
 - High proficiency in python and some proficiency in docker/web design.
 - Strong problem solving and analytical skills in state-of-the-art ML/DL approaches
 - Experience in fieldwork, data analysis, and modeling (preferred).
 - Most importantly – be flexible and eager to learn new things. This is especially important if the candidate is coming from non-agricultural background (e.g., Electrical/Computer Engineering). The candidate should be eager to learn about cropping systems.
- **Funding:**
 - Monthly stipend of \$2,400 per month, with tuition waiver and health insurance.
 - Annual raise depending on performance, with funding provided for 4 years.
- **Start Date:** Summer 2026

Application Process:

1st step: **DO NOT EMAIL**. Interested candidates should **ONLY** fill out the following form:

<https://forms.gle/EACAGc5yrPPcRYhh8>

2nd step: If deemed eligible by the PI (Dr. Sumon Datta), the student would be asked to officially apply through OSU Graduate College for the application to be evaluated by graduate committee of the department.

PI Information:

Sumon Datta, Ph.D., E.I.

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