



Faculty Positions, Water Resources
Biosystems and Agricultural Engineering Department
Oklahoma State University

Availability, use, and quality of water resources present challenges to meet agricultural, industrial, residential, environmental, and recreational water needs in Oklahoma, the Southern Great Plains region, and beyond. With a growing population, effective management and treatment of water across the different geoclimatic regions are critical to a sustainable economic future. Increasing drought severity and duration make it essential that community leaders, water managers, farmers and ranchers, and other stakeholders develop contingency plans for managing scarce water resources during critical drought periods while maintaining preparedness to cope with flooding due to extreme rain events.

The Biosystems and Agricultural Engineering Department at Oklahoma State University intends to strengthen the water resources area and expand engineering expertise in the Division of Agricultural Sciences and Natural Resources by filling two new faculty positions. Together, these positions will directly support OSU's Land-Grant mission of teaching, research, and Extension. Through collaboration with the Oklahoma Water Resources Center, these new hires will support ecosystem services and work to achieve high levels of water quality and sustainable use of our region's water through integrated programming. These positions provide added emphasis and expertise to address the water resource challenges in Oklahoma and offer a great opportunity to build a dynamic team with OSU faculty and staff and local, state, and federal agency personnel.

Assistant Professor, Irrigation Engineer

This position is an 11-month, tenure-track appointment with Research (75%) and Teaching (25%) responsibilities in irrigation systems and water management. Areas of emphasis may include precision irrigation, remote sensing, water balance of soil-crop systems, and integrated water management that help mitigate challenges in surface and groundwater availability, water quality, and use of wastewater. Other emphasis areas can include smart irrigation systems and systems analysis, simulation and modeling to promote water use, sensor development and application, and energy efficiency.

Assistant Professor, Water Management

This position is an 11-month, tenure-track appointment with Research (60%) and Extension (40%) responsibilities in rural and urban hydrology and water management. This position will work at the interface of rural and urban water systems, designing control measures for sustainable water management, including transport, treatment, and use. Areas of emphasis may include runoff, surface and groundwater flow, climate adaptation (e.g. flood mitigation, drought management) that supports agriculture and food operations as well as urban agriculture ventures and urban development initiatives.

View the full job ads and apply online at: <https://jobs.okstate.edu> and search for **req12670** (Irrigation Engineer) and **req12671** (Water Management). To learn more about the department visit: bae.okstate.edu. Inquiries or questions regarding these positions may be directed to Dr. Mari Chinn, Professor and Head (mari.chinn@okstate.edu) or Dr. Randy Taylor, Search Committee Chair, (randy.taylor@okstate.edu) at (405) 744-5431. Application screening will begin **December 1st, 2022**; and accepted until position is filled.