

## Ph.D. Position: Envisioning Water Sustainability through Renewable Energy in Agricultural Landscapes

The University of Kansas is recruiting a Ph.D. student to research the impacts of renewable energy expansion for sustainable agriculture on water resources. The use case involves groundwater and surface water resources in the irrigated Central Arkansas River Basin, and the student will integrate existing data, ground and surface water models, and cutting-edge AI/ML data science approaches.

This position is part of a multi-institution, inter-disciplinary NSF INFEWS project focused on rural livelihoods, led by Professor Mary C Hill. The successful student will learn, work, and collaborate across disciplines to develop a holistic understanding of the food-energy-water nexus. We seek candidates who can bring creativity and initiative to the study.



The ideal applicant will have:

- Bachelors or masters degree with water-related coursework (geology, geography, civil engineering, environmental science, etc.)
- Strong quantitative skills
- Experience or interest in thinking across disciplines
- Excellent written and oral communication skills
- Ability to work collaboratively
- Strong leadership skills

To discuss your qualifications before applying, please contact Andrea and Sam (see below).

**Start Date:** As early as January 2020 or as late as summer 2020; flexible for the right candidate.

**Position Details and Benefits:** The student will be housed in the KU Department of Geology and supported with a graduate research assistantship for at least 3.5 years. Support includes an annual stipend, tuition remission, and funding for conference travel and professional development. Teaching assistant opportunities within the department are also available. The University of Kansas is located in Lawrence KS, an eclectic town of 90,000 people with excellent cultural, dining, and recreational opportunities locally as well as in nearby Kansas City and Topeka. The area boasts biking and hiking, with country roads, scenic rural areas, reservoirs, and the Konza short-grass prairie.

**Interested?** Please email Andrea Brookfield ([abrookfield@ku.edu](mailto:abrookfield@ku.edu)) AND Sam Zipper ([samzipper@ku.edu](mailto:samzipper@ku.edu)) with the subject line "FEWtures PhD Position" and attach as a single PDF:

- 1) a 1-page cover letter describing your interest in and suitability for the position; and
- 2) your current CV or resume.

Promising candidate(s) will be encouraged to apply to the department after discussion.

***If you are interested and attending GSA, please email Andrea in advance to coordinate a time to chat.***