

## Two M.S. Assistantships

### Characterization and Mapping of Soil Physical and Chemical Properties in Lower Mississippi Alluvial Valley (LMAV) Green-Tree Reservoirs

#### College of Forestry, Agriculture and Natural Resources, University of Arkansas at Monticello

The College of Forestry, Agriculture & Natural Resources at the University of Arkansas at Monticello is seeking applicants for two M.S. Assistantships available beginning August 16, 2022. The assistantships are half-time and carry an annual stipend of \$15,000 plus tuition.

**Project:** We are seeking two independent and motivated M.S. students to work on spatial modeling to predict soil physical and chemical properties. In recent decades, digital soil mapping (DSM) methods have been actively used to study and map soils and their properties. Soil properties such as the ratios of carbon, nitrogen, and phosphorus are among the most direct indicators of the growth and sustainable development of forests. This research project involves the sampling and analysis of soils from green-tree reservoirs in the Lower Mississippi Alluvial Valley, with subsequent modeling using various DSM techniques to develop a robust approach capable of estimating soil properties at unsampled locations.

**Requirements:** Applicants must have a 2.7 overall undergraduate GPA or 3.0 GPA in the last 60 semester hours of undergraduate courses and satisfactory GRE scores. A B.S. degree in a natural resources-related field is also required. Applicants must have a valid U.S. driver's license or obtain the same within 60 days of starting employment. Overnight travel is required as well as the ability to work outdoors in all weather conditions.

**Location and Facilities:** The College of Forestry, Agriculture & Natural Resources is located in Monticello, Arkansas in the southeastern portion of the state. The Arkansas Forest Resources Center is also headquartered here, and is administered by the University of Arkansas System Division of Agriculture. The Arkansas Forest Resources Center is the research and extension arm for forest-based programs within the State. Additionally, the USFS Arkansas Forestry Sciences Lab is located at the College. The College and Center maintain several state-of-the-art laboratories (hydrology, soil, quantitative analysis, silviculture, wildlife ecology & management) available for graduate research and education.

**Application & Additional Information:** Graduate program and application information can be found at <https://www.uamont.edu/academics/CFANR/grad-degrees.html>. Applicants must be admitted to the University of Arkansas at Monticello and apply to the College of Forestry, Agriculture & Natural Resources before they can be considered for an assistantship. Applicants must submit all GRE scores, official transcripts, a statement of interests, and three letters of recommendation. Please indicate the position number above on all application materials and inquiries. For additional information, please contact:

Dr. Hamdi Zurqani, zurqani@uamont.edu 870/460-1248, or

Dr. Ficklin Robert, ficklin@uamont.edu 870/460-1692

The position is available until a qualified applicant is selected.  
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