Graduate Research Assistant (PhD)
Hunnicutt Creek Project

Department of AGRICULTURAL SCIENCES

College of AGRICULTURE, FORESTRY & LIFE SCIENCES

243 McAdams Hall
Box 340310
Clemson, SC
29634-0310

(864) 656-4072
FAX (864) 656-0338

We are seeking a motivated PhD student to join our "Intelligent River" (www.intelligentriver.org) team. Overarching research goal is to develop a site-specific model to include topography, land use, hydrology, and real-time instream and weather sensing to forecast streamflow and water quality in a micro watershed within the footprint of Clemson University main campus. The model will integrate real-time data and visualization capabilities to understand emerging water resources challenges.

The PhD student will be engaged in cutting edge research that includes extensive field work, spatial data analysis, and modeling. Installation, periodic maintenance, and monitoring of instream and weather sensors will be an integral part of this research project. Hands on research experience in instrumentation and monitoring is a must. We will use a combination of ArcGIS, Python, and/or R to analyze, model, and simulate data. Skills in ArcGIS and Python and/or R programming will be a significant plus.

Preferred candidates should have a strong desire to pursue a career in interdisciplinary scientific research, a demonstrated record of motivation, and work ethic. The ideal candidate will have a MS degree in agricultural or environmental or water sciences or engineering, and excellent verbal and written communication skills.

Interested students should submit a 1) resume with names and contact information of at least two references and 2) summary of research interests and skills relevant to this position.

Contact:
Either Dr. Sawyer *or* Dr. Karthikeyan:

Calvin B. Sawyer, PhD
Associate Professor
Department of Agricultural Sciences
Clemson University
calvins@clemson.edu
@SedimentCal

R. Karthikeyan, PhD
Charles Carter Newman Endowed Chair of Natural Resources Engineering & Professor,
Department of Agricultural Sciences
Clemson University
rkarthi@clemson.edu

Graduate Research Assistant (PhD) Announcement

The Sustainable Water Resources Research Group at Clemson University investigates watershed processes at different spatial and temporal scales using field measurement techniques, laboratory studies and computational tools. The group is seeking a highly motivated PhD student to join the group in Fall 2021 to work on research related to big data (water quality/quantity), watershed analytics, machine learning applications, nutrient management in urban and rural watersheds, BMP modeling and optimization, and climate change issues.

Candidate should have interests and experience in watershed modeling. Programming experience in R and/or Python, and large dataset management in programs such as WRDB is a plus. Preferred candidates should have a strong desire to pursue interdisciplinary research. The candidate should have leadership skills, should be highly motivated, work independently, manage time effectively, eager to learn project management skills and should have strong work ethics. The ideal candidate will have a MS degree in agricultural or environmental or civil engineering, and excellent verbal and written communication skills.

Interested candidates should submit a 1) curriculum vitae with names and contact information of at least two references 2) statement of research and skills relevant to this position 3) copies of transcripts 4) copies of writing samples if available 5) GRE and TOEFL (if an international student) scores.

For more information, please contact to Dr. Debabrata Sahoo, Associate Professor, Department of Agricultural Sciences, and SC Water Resources Center, Clemson University, South Carolina. Email at dsahoo@clemson.edu.