

PhD Student Opportunity in Water Quality and Machine Learning

I am recruiting one PhD student to join my group in the [Civil and Environmental Engineering \(CEE\) Department at Florida A&M University \(FAMU\)—Florida State University \(FSU\) College of Engineering](#) as a graduate research assistant beginning Spring 2022. The student will receive stipend, full tuition waiver and benefits.

PROJECT

The student will be primarily working on a funded research project by the Environmental Protection Agency (EPA) for development of a scalable Machine Learning tool for water quality analyses in coupled inland-estuary systems. This project is led by Dr. Ebrahim Ahmadisharaf in the CEE Department at FSU in collaboration with Dr. Ming Ye in the Department of Earth, Ocean and Atmospheric Sciences (EOAS) at FSU. The student is expected to regularly report the project findings to a group of stakeholders, in domestic conferences and as peer-reviewed journal articles.

REQUIRED/DESIRED QUALIFICATIONS AND SKILLS

- Holding a degree in engineering (civil, agricultural, water resources or environment), sciences (environmental, earth or computer) or any closely related field
- Understanding of hydro-biogeochemical processes in coupled inland-estuary systems
- Strong analytical and quantitative skills
- Computer programming (R, MATLAB or Python), data management, watershed modeling, Machine Learning techniques, water quality modeling, time series analyses and geospatial analyses (e.g., GIS)
- Independency, communication, presentation (oral and written), fast learning and the ability to work in an interdisciplinary team and with a group of stakeholders.

ABOUT US

FAMU-FSU College of Engineering is a joint college between FSU and FAMU in the capital of Florida, Tallahassee. It is classified by Carnegie as an R1 rank (Doctoral Universities — Highest Research Activity). The CEE Department is home to Resilient Infrastructure and Disaster Response (RIDER) Center, a highly interdisciplinary research center with several labs and facilities related to water resources, environment, construction and transportation. Tallahassee is also located within a short drive to multiple national parks and beaches, providing several opportunities for outdoor activities.

IF INTERESTED...

Highly motivated applicants should contact Dr. Ebrahim Ahmadisharaf (eahmadisharaf@eng.famu.fsu.edu) with their CV, unofficial transcripts, copy of English test scores (for non-English speaking applicants) and a brief statement describing how their interests connect to this research project. GRE scores can be waived. Students should visit [FSU Graduate Admission](#) and [FAMU-FSU College of Engineering Graduate Admission](#) about the admission requirements, GRE waiver requests and application deadlines. While the application is open to everyone, the preference will be given to applicants inside the US due to the project timeframe.

