

Geochemist/Chemical Oceanographer Graduate and Undergraduate Researchers

Job Description

The Geochemistry and Geochemical Sensing Lab at Harbor Branch/I-SENSE is seeking a geochemist interested in redox cycling in metal, nutrient, and sulfide cycling in sedimentary environments. The candidate will develop and employ novel electrochemical and fluidic sensors to obtain in situ, real-time measurements of sediment diagenetic processes. These measurements will be statistically linked to water quality conditions. This paid position will require extensive field work in the Indian River Lagoon and participation in oceanographic research cruises. This position will be based primarily (75%) on the Harbor Branch campus. Pending funding, the intent is for the candidate to transition to a multi-year Masters or Ph.D. program.

Education Requirements

- 3+ years undergraduate course work in chemistry, geosciences, environmental engineering, or ocean engineering; or, a mechanical engineering degree with a strong interest in oceanography; **or**
- candidates meeting the technical requirements below with a demonstrated interest in geochemistry and oceanography

Technical Requirements

- Strong background in chemistry, particularly redox systems
- Standard inorganic chemistry lab technique knowledge
- Optical measurement experience (e.g. spectrophotometry)
- Environmental/Oceanographic sampling experience
- Statistical analyses

Other Preferred Skills

- High Performance Liquid Chromatography
- Electrochemical analyses
- Python/MATLAB/R
- Modeling experience (numerical box models, reaction transport)
- GIS/mapping
- Engineering/CAD
- Embedded electronics systems experience

This position is to start as soon as possible (as of 3/21/18)
Please contact Dr. Jordon Beckler at jbeckler@fau.edu