

Data Scientist/GIS mapper

Undergraduate Researcher

Job Description

The Geochemistry and Geochemical Sensing Lab at Harbor Branch/I-SENSE is seeking an undergraduate student researcher with a strong interest in processing environmental data. The candidate will process both discrete and continuous data sets of multiple origin. This paid position can be based at any FAU campus, but regular (2x month) meetings will be expected at either the Boca or HBOI campus, with more frequent meetings via teleconference.

Education Requirements

- 3+ years undergraduate course work in computer science, geography, geomatics engineering, mathematical sciences, or related field or
- Candidates meeting the technical requirements below with a demonstrated portfolio of data processing applications

Technical Requirements

- Python/MATLAB/R
- Management of big data sets
- GIS/mapping
- 3-D oceanographic data set visualization
- Statistical analyses (e.g. multi-variate techniques – PCA)
- Modeling experience (numerical box models, reaction transport)
- Digital signal processing/harmonic analyses
- Time-series visualization/graphing techniques

Other Preferred Skills

- Basic chemistry knowledge
- Environmental sampling knowledge
- Machine learning algorithm implementation
- Optical measurement experience (e.g. spectrophotometry)
- 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