

Postdoctoral Fellow: Coupled Physical-biogeochemical Modeling of Harmful Algal Blooms

Harbor Branch (HBOI), Florida Atlantic University

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Position Summary:

HBOI, Florida Atlantic University is seeking a Postdoctoral Fellow for Coupled Physical-biogeochemical Modeling of Harmful Algal Blooms, Fort Pierce, FL. This position is located at FAU's Harbor Branch campus in Fort Pierce, FL (<https://www.fau.edu/hboi/>).

HBOI is seeking a self-motivated candidate to conduct numerical modeling of harmful algal blooms (HABs) in Florida estuaries and coastal oceans. The successful candidate will be in charge of developing, implementing, and analyzing the results of coupled physical-biogeochemical models for Indian River Lagoon, St. Lucie Estuary and Caloosahatchee Estuary. The areas have experienced different types of HABs involving both freshwater species such as cyanobacteria *Microcystis aeruginosa*, and saltwater species such as brown-tide *Aureoumbra lagunensis* and red-tide *Pyrodinium bahamense*. The main objectives of numerical modeling are to understand the controlling physical and biogeochemical processes and ultimately to predict the blooms. Sediment diagenesis and vegetation may play important roles in some areas/cases, and larger forces include eutrophication due to increasing human activity and climate change.

This effort is also part of the HBOI Florida Center for Coastal and Human Health that involve a team of collaborators with diverse interests in remote sensing, laboratory experiments, and field observations (<http://www.fau.edu/hboi/flcchh/>). The candidate should be willing to collaborate with scientists within and outside of FAU in a university culture that fosters innovation and collaboration. The initial appointment will be one year with possible renewal depending on funding availability and the performance.

Minimum Qualifications:

A Ph.D. from an accredited institution in Marine Science, Oceanography, or closely related fields by time of application is required.

Strong mathematical skills and significant programming experience (Fortran, Matlab, Python, Linux) is required.

Significant experience in numerical modeling and familiar with ocean models such as ROMS, POM, and FVCOM is required.

A strong interest in marine interdisciplinary research such as water quality, biogeochemistry, phytoplankton blooms, and ecosystem dynamics is essential.

Salary: \$50,000 - \$55,000

College or Department: HBOI - Research Ocean Modeling

Location: Harbor Branch (HBOI)

Work Days and Hours: N/A

Application Deadline: 2021-03-30-07:00

Special Instructions to Applicant:

This position is open until filled and may close without prior notice. For inquiry about the position, please contact Dr. Mingshun Jiang via email jiangm@fau.edu or phone 772-242-2254.

All applicants must apply electronically to the currently posted position on the Office of Human Resources' job website (<https://fau.edu/jobs>) by completing the required employment application for this recruitment and submitting the related documents. The job # is REQ07270.

The site permits the attachment of required/requested documentation. In addition to completing the online application, please upload the following: a cover letter, curriculum vitae, research statement and copies of official transcripts scanned into an electronic format.

PLEASE NOTE: A maximum of five (5) documents may be attached to your application. If more than five (5) documents are required for submission, please combine additional documents into one attachment to not exceed the maximum permitted.

Degrees from outside the United States must be validated by an organization belonging to the National Association of Credential Evaluation Service (NACES), with an indication of the documents the evaluation was prepared from (official transcripts, diplomas, dissertation abstracts). The evaluation should be scanned and electronically attached to one's application as with other US-based transcripts.

Prior to appointment, the candidate must submit official, sealed transcripts from all institutions where graduate coursework was attempted, whether or not a degree was obtained, as well as an original NACES evaluation, if applicable. Transcripts must be issued to Florida Atlantic University not to you as the student.

A background check will be required for the candidate selected for this position. This position is subject to funding.

Individuals requiring accommodation, please call 561-297-3057 ext. 711

This position is funded with recurring grant funds with an expiration date on March 30, 2021. Renewal of funding is possible, however, not guaranteed.