



POSITION ANNOUNCEMENT

Position Title: Research Associate-Adjunct Post-Doc – Great Lakes Estuary Hydrodynamic Modeling

Required Qualifications and Education: Ph.D. in Quantitative Ecology, Limnology, Oceanography, Informatics, Computer Science, Engineering or a related field with a record of peer-reviewed publications. Experience in processing environmental data and building hydrodynamic models of aquatic ecosystems (oceans, coasts, estuaries or lakes). Interest in modeling recovery of ecosystems afflicted with anthropogenic pollution, eutrophication, bottom water hypoxia and harmful algal blooms.

Responsibilities – Essential Functions: The post-doctoral associate will work with a diverse research team from the Annis Water Resources Institute, Grand Valley State University (AWRI-GVSU; <http://www.gvsu.edu/wri/>) and NOAA Great Lakes Environmental Research Laboratory (NOAA/GLERL; <http://www.glerl.noaa.gov>) to develop a 3D hydrodynamic model of the Muskegon Lake estuary and assess ecosystem changes and impacts to eutrophication, HABs, and hypoxia resulting from stressors such as anthropogenic pollution and climate change. Responsibilities include development of a 3D hydrodynamic estuarine model, participating in data acquisition and analysis, and instrument calibration in the laboratory.

- Ability to process and analyze observed and modeled data sets
- Experience using Finite Volume Community Ocean Model (FVCOM) or similar hydrodynamic code (e.g. FORTRAN) for hindcast/scenario simulation and data visualization (e.g. IDL, Matlab, Python, R).
- Participate in field collection of raw data and perform data quality checks in the lab.
- Present findings at scientific conferences and prepare peer-reviewed publications.
- Assist in annual project report preparation for submission.
- Maintain project website of Muskegon Lake Ecosystem Modeling and Recovery.

Responsibilities – Non-essential Functions: Participate in fieldwork and instrument deployment. Incorporate biological components/processes into model. Carry out education and outreach activities, linking lake science to the community at large.

Salary: Commensurate with experience, with adjunct benefit package

Department/Division: R. B. Annis Water Resources Institute/College of Liberal Arts & Sciences

Campus: Muskegon

How To Apply: Apply online at www.gvsujobs.org. Include a cover letter and resume. The online system will allow you to attach these documents electronically. The online application will ask for contact information for three references. For further information about the position please contact the Principal Investigator and Limnecologist, Dr. Bopi Biddanda (616-331-3978; biddandb@gvsu.edu; <http://www.gvsu.edu/wri/biddanda/>).

Application Deadline Date: Applications accepted until June 15, 2016. Desired start date: August 1, 2016. This position is renewable for one year, subject to satisfactory performance.

Allendale, Michigan 49401 - (616) 331-5000

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