

## **Postdoctoral and Graduate student positions in Water Resources Engineering**

The Ecohydraulics Laboratory at the University of Central Florida in Orlando is seeking to fill Postdoctoral and Ph.D./M.Sc. student positions to support research focused at how feedbacks between hydrodynamics and biota (mangroves, seagrasses, marsh grasses, oyster reefs) influence sediment transport and geomorphic processes. Successful candidates will combine field data collection and experimentation, lab experimentation in a sediment recirculating flume, and modeling to support fundamental science in flow-biota-sediment interaction, with direct applications to robust design of green infrastructure. Positions are available from Summer/Fall 2021, but Spring 2022 may also be possible. The Kibler Ecohydraulics Lab fosters inclusion and diversity and particularly welcomes applications from students currently under-represented in the Engineering field.

### For Graduate Research Assistantship positions:

Graduate positions are full funding for 4-year Ph.D. degree or 2-year M.Sc. degree in Civil or Water Resources Engineering.

### **PREFERRED QUALIFICATIONS**

- B.Sc. and/or M.Sc. degree in Water Resources, Civil, Environmental, Biological or Ecological Engineering, or in a related area (Hydrology, Geomorphology, Marine or other relevant Earth Sciences) from an accredited institution.
- Quantitative background (coursework and professional or research experience) in water resources, hydrology/hydraulics. Experience with coding and analysis (preferably in MATLAB).
- Interest or relevant experience in hydrodynamics and sediment transport.
- Excellent oral and written communication skills. Prior record of published scholarly work, presentation of research results. For Ph.D. student applicants, Master's thesis and/or journal publication is a plus.
- Field experience in aquatic environments (boating experience a plus).
- Willingness to be a team player. Please see details here:  
<http://ecohydraulics.weebly.com/join-us.html>

### **APPLICATION PROCEDURE**

Applicants to Graduate student positions must apply and be accepted to UCF's Department of Civil, Environmental, and Construction Engineering. Applicants interested in being considered for this assistantship should complete their application by the priority deadlines for Fall (July 1, 2021) or Spring admission and should contact Dr. Kibler ahead of time.

If you plan to apply, please send a CV and writing sample (preferably work on which you are the first author) to Dr. Kelly Kibler at [kelly.kibler@ucf.edu](mailto:kelly.kibler@ucf.edu).

### For Postdoctoral position:

The postdoctoral position is conceived nominally as a 2-year position, with review after 1 year, and with possibility of continued support pending satisfactory progress and funding availability.

#### PREFERRED QUALIFICATIONS – Postdoctoral position

- Ph.D. degree in Water Resources, Civil, Environmental, Biological or Ecological Engineering, or in a related area (Hydrology, Geomorphology, Marine or other relevant Earth Sciences) from an accredited institution.
- Interest or relevant experience in sediment transport, hydrodynamics.
- Strong quantitative background (both coursework and professional or research experience).
- Coding and analysis of timeseries data (in MATLAB, Python), numerical modelling experience (e.g. SWAN, Delft 3D).
- Excellent oral and written communication skills. Prior record of published scholarly work, especially first-author journal publication.
- Experience designing and implementing field and/or lab experimentation in aquatic environments (boating experience a plus).
- Experience calibrating and deploying sensors (turbidity, ADCP, ADV).
- Ability to meet project deadlines and willingness to be a team player. Please see details here: <http://ecohydraulics.weebly.com/join-us.html>

#### APPLICATION PROCEDURE

Applicants to the Postdoctoral position should send CV and writing sample (preferably work on which you are the first author) to Dr. Kelly Kibler at [kelly.kibler@ucf.edu](mailto:kelly.kibler@ucf.edu).