

## **Great Lakes Fishery Commission Fishery Biology Internship**

The primary responsibilities of the Great Lakes Fishery Commission (GLFC) are to:

- 1). To develop coordinated programs of research on the Great Lakes to recommend measures which will permit the maximum sustained productivity of stocks of fish of common concern; and
- 2). To formulate and implement a program to eradicate or minimize sea lamprey populations in the Great Lakes.

The GLFC is leading the bi-directional selective fish passage (FishPass) project at the Boardman (Ottaway) River's Union Street Dam in downtown Traverse City, MI to provide up- and downstream passage of desirable fishes while simultaneously blocking and/or removing undesirable fishes.

To achieve FishPass objectives, the FishPass Advisory Board has initiated an Assessment Plan to coordinate monitoring and assessment techniques. Data on fish community structure and dynamics, fish movement/passage, contaminant loading, sea lamprey populations, habitat availability and use, water quality, and stream morphology will be collected pre-, during-, and post-construction at representative reaches of the Boardman River. This assessment design will allow managers to make annual adjustments to adapt FishPass operations in terms of the number of individuals and species passed to effectively enhance fishery production in the Boardman River.

### **Job Description**

The 1-2 intern(s) will assist GLFC staff to implement key aspects of the FishPass Assessment Plan. This job may include (but will not be limited to) the following tasks:

- A. Monitoring fish movement in the Lower Boardman River
  - a. Assist with maintaining fish telemetry arrays
  - b. Assist in maintaining environmental sensors
  - c. Assist in manual tracking of radio tagged fish
  - d. Collect data from radio and passive integrated transponder (PIT) dataloggers
  - e. Assist in fish abundance surveys and telemetry tag surgeries
- B. Managing data
  - a. Assist with data entry and clean-up
  - b. Compile data into tables and graphs using MS Excel and R software
  - c. Summarize data
- C. Reporting data
  - a. Assist in the development of reports for the GLFC
  - b. Assist in preparation and presentation of data to FishPass Advisory Board and other organizations, as directed.

### **Commitment**

The internship begins May 1, 2019 and ends September 1, 2019. Minimum hourly commitment is 150 hours. Some weekend and evening hours may be required. Flexible schedule to accommodate both the student's and GLFC's needs. Respond promptly to phone calls and emails from supervisor.

### **Supervisory controls**

The incumbent works under guidelines and policies set by the commission and direction from the Computational Engineer (GLFC - Hammond Bay Biological Station) and Fishery Biologist (GLFC - Conservation Resource Alliance).

### **Compensation**

The GLFC Fishery Biology Internship will receive compensation of \$12.74 per hour (GS-3, step 1). The intern is responsible for submitting time sheets to the supervisor, who reviews and submits them to GLFC for payment.

### **Qualifications – Required**

1. Minimum age: 18 years
2. Degree: High school diploma
3. Must be enrolled in the Northwestern Michigan College – Freshwater Studies Program
4. Must have a valid driver's license
5. Must demonstrate ability to:
  - a. work as part of a team with professional staff
  - b. communicate effectively-written, verbal, and computer skills
  - c. work well with people
  - d. work in occasionally inclement conditions (rain, cold)

### **Qualifications – Preferred**

1. Interests: Environmental science, fisheries, and biology
2. Lift heavy equipment ( $\leq$  60 lbs.) as needed in the field
3. Knowledge and Experience
  - a. Computer skills – Excel spreadsheets, word processing, and experience with R computer language.
  - b. Science – biology, fisheries, GPS equipment, and experience working on the water via boats or wading.
  - c. Miscellanies – Organizational note taking and general construction experience.

If interested, please email or send a letter of inquiry and resume to:

Daniel Zielinski, Computational Engineer  
Great Lakes Fishery Commission  
Hammond Bay Biological Station  
11188 Ray Road  
Millersburg, MI 49759-9481

Phone: 989-734-4768 x 114  
Email: [dzielinski@glfc.org](mailto:dzielinski@glfc.org)