**Paid Summer Internship (40 hours per week)**

**Job Title:** Environmental Sensor Network Intern

**Compensation:** $8.65 per hour plus room and board (valued at $2500)

**Dates:** June 22- August 14, 2020

**Internship Description:**

The Environmental Sensor Network intern will be working with FLBS personnel on two environmental sensor networks (LakeNet, RiverNet), both of which collect weather and ground water data, to continue long term data collection from lake and riverine settings on Flathead Lake and the Nyack Floodplain in NW Montana.

The sensor networks use Campbell Scientific CR1000 dataloggers and radio telemetry to transmit the data from 6 lake and 7 riverine sites to an FLBS server where the data is housed, and the intern will be responsible for visiting these off-site locations to perform weather station maintenance, sensor calibration, and data logger troubleshooting. He or she will also use Logger Net software and programming in an effort to build upon long-term data from these sites. The network data has shown much utility to scientists, resource managers, farmers, recreationalists, fishermen, pilots, shoreline homeowners, and the general public.

The intern will have the opportunity to work with data-loggers and sensors, analyze Logger Net data, learn about floodplain ecology, and network with world class scientists at a world renowned biological station; all the while experiencing outdoor adventures located between the Flathead National Forest, Glacier National Park, and the Great Bear Wilderness!

- This project requires the travel to and maintenance of the networks at both the FLBS host-site and the remote sites on Flathead Lake and the Nyack Floodplain. Sensor maintenance includes monthly visits to the remote sites for sensor calibration, site maintenance (bio-foul removal/collection, moisture control, data transfer) and weather station troubleshooting. This activity will account for 50% of the total project time demand.
- Some sensor calibrations require factory service. 30% of the duties will involve requesting calibration service, service payment and record keeping, and shipping.
- Data compilation and analysis will take up 15% of the total project demand time.
- A presentation on the completed work will be given at the end of the summer session to their intern cohorts, summer students, and FLBS faculty and staff. This activity will account for 5% of project demand time.

**Qualifications:**

- Sophomore or Juniors with majors from any natural science preferred.
- Must be a continuing undergraduate student

**How to Apply** (application deadline: Feb 28, 2020):
UM students: use Handshake; search for Flathead Lake Biological Station
Non-UM students: send a cover letter, resume including contact information for three references to Monica Elser at monica.elser@flbs.umt.edu