



2022 Research Internships

Center for Ohio River
Research & Education
Thomas More University
Biology Field Station



(<https://www.thomasmore.edu/academics/explore-campus/biology-field-station/>)

The Center for Ohio River Research & Education (CORRE) at the Thomas More University Biology Field Station is offering **8 paid research internships for undergraduate students**. These positions are in the fields of aquatic biology, ecology, environmental science and field biology. Projects involve animal husbandry, bioassessments/biomonitoring, fisheries, harmful algal bloom monitoring and toxicology, among others.

Time Period: Internships begin on **May 31st** and conclude on **August 07th, 2022**.

(Interns will have a mid-summer break from July 02-09.)

Internships include a **\$3000 stipend and free on-site housing**. Students are responsible for food & travel.

Student intern outcomes include:

- Increased understanding of and proficiency with research practices and processes
- Increased understanding of discipline-specific concepts and content
- Stronger skills in discipline-specific methods and procedures
- Expanded professional networks
- Increased interest in a career in field-based sciences
- Stronger professional skills
- Greater sense of belonging in the scientific community



Applications are due by Friday, February 04, 2022

Eligibility (These are the minimum requirements for eligibility.)

- Good Academic Standing and a **minimum 3.00 G.P.A.**
- Successful completion of General Biology I & II or General Chemistry I & II (or equivalent courses)
- Preference will be given to students with career aspirations in aquatic biology, ecology, environmental science, fisheries, and/or field biology.

Application Materials (Hard copies or electronic applications are acceptable.)

- Cover Letter
- Unofficial Transcripts
- Resume or CV—limited to 1 page
- One Letter of Recommendation (submitted with the other materials or sent directly to Dr. Lorentz)
- Application Form (can be found at <https://www.thomasmore.edu/academics/explore-campus/biology-field-station/> under Research)

Brief Descriptions of the Summer Internships

I. Research Internships*

The Thomas More University Biology Field Station is offering 8 internship positions which include a \$3,000 stipend for 10 weeks of research and outreach activities and free on-site housing. The positions will begin on May 31 and end on August 07, with a mid-summer break from July 02-09. Interns may move in as early as Saturday, May 28, but no later than Monday, May 30, as an orientation will begin on May 31, 2022.

** For students who wish to earn academic credit for their internship, they may register for credit(s) in the fall semester at their home institution. The expectations for these credits will be outlined prior to registration.*

The CORRE interns will be assigned to one or more of the following projects:

- **Bioassessment of the Ohio River (aka River Crew):** This study is part of the long-term monitoring of the Ohio River near Zimmer Power Plant in Moscow, OH which began in 1971. Work includes physiochemical sampling, fish collections and habitat analyses. The hours are generally from 9am-12pm and 6-9pm, Monday-Friday. Night electrofishing will occur from 9pm-12am four times during the study. Fish tissues will be collected for DNA sequencing analyses.
- **Stream Assessments (aka Stream Team):** This project entails extensive stream assessments throughout Northern Kentucky, in conjunction with the Sanitation District No. 1 and the Boone County Conservation District. Interns will work alongside biologists from these agencies to conduct bacterial tests, physiochemical sampling, fish & macroinvertebrate collections and habitat analyses. All work will occur during the day from Monday-Friday.
- **Animal Husbandry (aka Lab Team):** These positions entail working in the aquaculture labs at the Station, designed for the propagation of freshwater fish and native mussels. Work includes daily monitoring of the fish and mussel tanks, physiochemical sampling, tank maintenance. In addition, interns will conduct two types of experiments. The first is in collaboration with the Ohio State University and the US/KY Fish & Wildlife Services, to identify fish species that serve as hosts for native mussel larvae and propagate native mussels. The second is experiments in aquatic toxicology, conducted in collaboration with the USEPA, located nearby in Cincinnati, OH. This internship is primarily lab-based, unlike the previous two which are primarily field-based.
- **Other Projects:** In addition to the crew work, each intern is required to develop an independent-study side project of their own choosing, under the guidance of the Field Station Director and other research mentors. Additional details and suggestions for projects will be discussed during the orientation phase of the internship.

II. Other Related Activities

- **Environmental Educators:** Throughout the summer, various outside groups will visit the Field Station for tours and/or hands-on lessons in aquatic biology. The research interns are expected to assist with these activities.
- **Camp Mentors (July 17-July 20):** Research interns will also serve as camp mentors during a S.T.E.M. camp for approximately 10 high school students. Mentors will assist faculty with the daily educational activities and social events throughout the week. Meals are provided during this week.
- **Work-Study Jobs—Thomas More Students only** (throughout the summer): Positions entail performing tasks in landscaping, maintenance and custodial work. Hours are flexible and determined by the Station Director and each intern.

CORRE Internship Application Form

(Please submit this form, along with a cover letter, resume transcripts & letter of recommendation, by Feb. 04.)

Name: _____ D.O.B. _____

Email Address: _____ Phone: _____

Permanent Address: _____

School: _____ Class Year: _____ GPA: _____

Major(s): _____ Major Advisor: _____

Career Goals: _____

Relevant Coursework and/or Related Experiences: _____

Please rank each research position below, according to your interest level (i.e. #1 being your most desired).

Ohio River Bioassessment (Field)

Stream Assessments (Field)

Animal Husbandry (Lab)

Work-Study Job (open to TMU students only)

A note about housing at the Field Station:

On-site housing for interns consists of three separate houses, each with 4 bedrooms, a living room, kitchen, dining room, full bathroom and basement. Washers and dryers are also available in each house. Interns typically will have their own bedroom, pending space. Housing assignments are made according to age, gender and home institution.

The houses do not have air conditioning, and interns are required to prepare their own meals and pitch in with keeping the houses clean & orderly; so be sure that you can tolerate such conditions, before applying for these internships.)

Application materials can be sent electronically or mailed no later than Friday, February 4, 2022 to:

Chris Lorentz, Ph.D. (lorentc@thomasmore.edu)

Professor of Biology and Director of the Ohio River Biology Field Station

Department of Biological Sciences, Thomas More University

333 Thomas More Parkway

Crestview Hills, KY 41017