



Morgan State University Estuarine Research Center Internship Program ~ 2010

Program Description

The Internship Program at the Estuarine Research Center (ERC) offers undergraduate and recently graduated students unique hands-on experiences in an environmental research setting. The student will gain knowledge on field and laboratory research and project designs. During the entire course of the internship, each student will work exclusively under the guidance and supervision of an ERC faculty research scientist. An ERC intern will be involved in meaningful research during the internship and will present the findings at an ERC seminar series at the end of the summer.

About Our Center

Morgan State University's Estuarine Research Center (ERC) is located on the Patuxent River (part of Chesapeake Bay watershed) in St. Leonard, MD. Research conducted at the state-of-the art facility is designed to increase the understanding of coastal ecosystems so that they may be properly managed and protected. The Estuarine Research Center maintains excellent facilities that include: a 22,000 square foot laboratory and office building, a fleet of vehicles for field work including multiple research vessels; a private dock providing access to the Patuxent River; scuba support and dive locker; teaching laboratory; range of research laboratories, including isotope, constant temperature and image analysis labs. For more information about ERC, go to: http://www.morgan.edu/Estuarine_Research_Center.html.



Estuarine Research Center Internship Program

Eligibility

This program is open to all undergraduate students and those who recently graduated. You do not need to be a US citizen to apply but a social security number is required. Applicants must be accepted by an ERC affiliated researcher.

Intern Supervisor

You will be working under the guidance of your intern supervisor. The supervisor will direct you in your daily work, your schedule and guide you through your internship project.

To choose your supervisor, take a look at the "Faculty and Research at ERC" sheet or go to our website and look under Research Programs. You may want to contact one or more faculty from ERC and discuss their research interests to ensure that they match your interests.

Stipend and Boarding

Each intern will receive \$400 per week. Limited on-campus housing is available for \$75 per week.

Expectations:

Hours

Interns are expected to work full-time (40 hours per week) with their supervisor for 10 weeks during the summer months. This time-frame is flexible, and must be discussed with your supervisor before you start.

Projects

An internship project will be designed under the guidance and supervision of an ERC faculty research scientist and completed by the end of the internship period. Findings will be presented in a mini-symposium at the end of the summer.

Orientation

An orientation and a safety seminar will be given before the start of the internship. The safety seminar, given by the safety officer, is required before lab and field work can be done. The orientation will give you information on various aspects of the internship and your summer at ERC. It will also give you an opportunity to meet other students, faculty and staff from ERC.



Estuarine Research Center Internship Program

Faculty and Research at ERC

Kelton Clark

Director of Morgan State University Estuarine Research Center

- ☞ Predator-prey relationships
- ☞ Community and population structure
- ☞ Impact of shoreline alterations on habitat

410-586-9706 • kelton.clark@morgan.edu

Chunlei Fan

Assistant Professor Biology Department

- ☞ Hyperspectral remote sensing
- ☞ Monitoring eutrophication processes
- ☞ GIS/ Remote sensing
- ☞ Aquatic microbial ecology

410-586-9712 • chunlei.fan@morgan.edu

Manoj R. Nair

Research Associate & Oyster Hatchery Manager

- ☞ Bivalve Shellfish hatchery spat production and grow-out management
- ☞ Bivalve Shellfish larval settlement, disease and broodstock management
- ☞ Water Quality Management in Shellfish Hatcheries
- ☞ Bivalve Shellfish Aquaculture Hatchery Training

410-586-9713 • manojnair999@yahoo.com

J. Howard Hixson, III

Research Assistant

- ☞ Power plant monitoring
- ☞ Fish and crab impingement studies
- ☞ Entrainment of fish eggs and larvae
- ☞ Fish taxonomy

410-586-9715 • jhoward.hixson@morgan.edu

Richard V. Lacouture

Research Assistant Professor

- ☞ Phytoplankton ecology
- ☞ Monitoring programs in the Chesapeake Bay
- ☞ Harmful algal blooms

410-586-9721 • richard.lacouture@morgan.edu

Stella Sellner

Education Coordinator

- ☞ Environmental science for K-12 students
- ☞ Roll of microzooplankton in the Chesapeake Bay food web

410-586-9700 x5024 • stella.sellner@morgan.edu



Estuarine Research Center Internship Program

How to Apply:

An application must be completed by the student and contain the following:

- ☞ Academic transcripts (unofficial are acceptable)
- ☞ Personal essay (2-3 pages)
- ☞ 2 letters of recommendation
- ☞ Intern Registration Form (1 page)

Essay

As part of the application, each applicant is asked to submit a short personal essay (2-3 pages) outlining past and present interests and academic and non-academic experience. The essay should discuss your special interests, academic and career plans, motives for applying for participation in the Internship Program and how you feel this experience will further your educational and intellectual goals. Be sure to specify up to three researchers whom you are interested in working with in order of preference. We are particularly interested in why you want to participate in this internship program and what you hope to gain through your participation.

For full consideration, all of your application materials must be received by **March 1st, 2010**.

Application materials should be submitted to:

Stella Sellner
Estuarine Research Center
10545 Mackall Rd
St Leonard, MD 20685

Fax: 410.586.9705
Email: stella.sellner@morgan.edu



Estuarine Research Center
Internship Program

INTERN REGISTRATION FORM – 2010

Personal Information

Name _____

Address _____

City _____ State _____ Zip _____

Phone () _____ Cell () _____

Email _____

Do you have a social security number? ____yes ____no

Academic Information

Present Academic Level:

[] Undergraduate - Specify class: Fr / So / Jr / Sr

[] Recent graduate - Month/Year _____

Major _____

School/College _____

Academic Advisor _____

Is this your first internship at ERC? Yes ____ No ____

If no, who was your previous intern supervisor? _____

How did you hear about this program? _____

Who would you like to work with at ERC?	What are your research interests?
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____

Special skills you have relevant to this internship (e.g. lab techniques, field sampling, computer skills, etc.): _____

Do you require housing while at ERC? Yes ____ No ____

Do you have your own transportation? Yes ____ No ____

Signature _____ Date _____