



## January/February 2007 Newsletter

### SUMMER INTERNSHIPS

#### 1. FCC&MS- Funded Summer Internships

Each year, the FCC&MS Program offers financial support for summer internships at various National Oceanographic and Atmospheric Administration (NOAA) sites in the U.S., and the Duke University Marine Laboratory in Beaufort, NC. Students interested in a Duke Marine Lab internship must contact a Duke faculty member to set up a research project.

Due to budget constraints, there are currently just a few NOAA projects from which to choose. However, we anticipate that more project proposals will be submitted within the next month. I will send notice when more projects are available.

Go to [www.fivecolleges.edu/sites/marine/internship](http://www.fivecolleges.edu/sites/marine/internship) to download the application and peruse the NOAA project descriptions. **Application deadline: MARCH 5, 2007.** Deadline may be extended to accommodate new NOAA projects- stay tuned.

**NOTE to Smith College Students interested in a NOAA internship:** Please apply through the Summer Research Fellows Program; you will be funded through the Agnes Andree Fund.

[www.science.smith.edu/departments/director/extranet/srfprogram.html](http://www.science.smith.edu/departments/director/extranet/srfprogram.html)

Please direct any questions to Joanne Benkley ([jbenkley@email.smith.edu](mailto:jbenkley@email.smith.edu))

#### 2. Woods Hole Marine Science Consortium (WHMSC) Internships

The Five Colleges are part of the WHMSC, which means that Five College students can participate in this special internship program. Duration and format of the internships are flexible and involve intensive research in the lab and field, presentation of a talk, and submission of a manuscript for publication.

**NOTE: This internship requires a different application process!**

Applications are available by contacting the FCC&MS office or by visiting [www.mbl.edu/REU](http://www.mbl.edu/REU). Students must submit their application to the FCC&MS office by **FEBRUARY 8, 2007** and, after review, we pass it on to the WHMSC.

#### 3. Research Experience for Undergraduate Program.

The National Science Foundation funds numerous research programs for undergraduates, at locations around the country. Rising juniors and seniors are given preference, but some programs may accept graduating seniors. Women and underrepresented students are encouraged to apply. Please visit [www.fivecolleges.edu/sites/marine/REU](http://www.fivecolleges.edu/sites/marine/REU) for a list of marine-related programs.

Common Application Deadline: **FEBRUARY 15, 2007** (this may vary- be sure to check)

**FEATURED REU: Shoals Marine Lab** <http://www.sml.cornell.edu/research/pr-uo.htm>

## STUDY AWAY PROGRAMS for Summer 2007

### 1. Friday Harbor Labs (University of Washington)

FHL (located on San Juan Island, WA) is offering a variety of summer courses in marine science, including Marine Invert Zoology, Comparative Embryology of the Marine Inverts, Fish Swimming Dynamics, Marine and Coastal Conservation, Marine Bioacoustics, Marine Algae, and Larval Biology. Further information can be found at <http://depts.washington.edu/fhl/studentClasslist2007.html>. Financial assistance is available. **Application Deadline: FEBRUARY 1, 2007.** Applications will be accepted past due date if space is available. For information, please contact Stacy Markman.

### 2. Shoals Marine Laboratory

SML is based on 95-acre Appledore Island, 6 miles offshore from Portsmouth, New Hampshire. The courses award semester credits at Cornell University or the University of New Hampshire, which are easily transferable to other colleges and universities. The SML is emphasizing opportunities in two core courses that provide a general introduction to marine science. Field Marine Science (May 28 - June 25, 2007; 8 credits) or Field Marine Biology and Ecology (July 23 - Aug 20, 2007; 8 credits) offer broad exposure to the excitement of studying marine systems. To learn more about the full range of opportunities at SML, please visit their website: [www.sml.cornell.edu](http://www.sml.cornell.edu)

**A SML representative will be at Smith College (Campus Center- Lower Level) on Thursday, February 8 from 10am - 2pm to answer your questions about the program!**

## UPCOMING FIVE COLLEGE EVENTS

### 1. Fri, March 2: University of Massachusetts OEB Seminar

[Dr. Kevin Peterson](#) of the Department of Biological Sciences, Dartmouth College will present “*Molecular paleobiology and the Cambrian explosion.*”  
4:00 p.m. in 319 Morrill Science Center 2

### 2. Mon, March 5: Smith College Biological Sciences Colloquium

Dr. Allan Curran of the Department of Geology, Smith College will present “*Rise and Demise of a Young Coral Reef Complex: Lessons from the Dominican Republic.*”  
4:30 p.m. in McConnell B05, Smith College. Refreshments at 4 pm in McConnell Foyer.

### 3. Fri, March 9: University of Massachusetts OEB Seminar

[Dr. Molly Cummings](#) of the Department of Integrative Biology, University of Texas will present “*Sensory ecology of poison frogs and kelp forest fishes.*”  
4:00 p.m. in 319 Morrill Science Center 2

## GRADUATE PROGRAMS:

There have been a number of marine-related graduate opportunities posted in the last month. If you are not in the position to apply for any of these programs just yet, this list can give you a good idea of what is out there for the future. With any graduate program, making contact with a faculty member is a crucial first step.

- 1. University of Louisiana at Lafayette:** Graduate research on restoration ecology of coastal wetlands  
We need a DOCTORAL OR MS graduate student to conduct research on the restoration ecology of coastal wetlands and barrier island plant communities in Louisiana and possibly other coastal states.

Although a doctoral student is preferred, exceptional, well-qualified students interested in pursuing a Masters degree in Biology are also encouraged to apply.

Funding: Competitive graduate assistantship funding and tuition waivers are available, including consideration of truly exceptional applicants for a Board of Regents Doctoral Fellowship in Environmental and Evolutionary Biology (Fellowships are funded for three to four years and carry stipends of \$14,000/9 months - \$24,000/per year with waivers of tuition and most fees).

Contact: Dr. Mark W. Hester, Coastal Plant Ecology Laboratory  
Department of Biology  
University of Louisiana at Lafayette  
Lafayette, LA  
[mhester@louisiana.edu](mailto:mhester@louisiana.edu)  
<http://www.ucs.louisiana.edu/~pll6743/biogradstudies.htm>

Please attach resume, as well as GPA and GRE score information with all inquiries. Following initial contact, applicants interested in formally applying must be able to submit all materials by **February 1, 2007** for Fall 2007 admission.

## **2. University of Rhode Island: Graduate Research Assistantship in Invasion Ecology**

Summary: A graduate research assistantship is available at the master's level to study the ecology and evolutionary biology of *Phragmites australis*. The primary goals of this research are to better understand *Phragmites* reproduction and genetics of both the native and introduced Subspecies. This initial project is a planned three-year effort (potentially starting 1 July 2007) that will include additional graduate students and faculty.

Qualifications: Applicants must have completed an undergraduate degree in plant biology or ecology, earned at least a 3.5 GPA, must have taken the GRE, and must have excellent oral and written communication skills. Field sampling and laboratory experience are required. Experience with nutrient analysis and genetics is highly desirable. Ability to work collaboratively and to supervise research assistants and undergraduates working in the field and the laboratory is also required.

Funding: Nine-month stipends are approx. \$15,000/yr and tuition is paid. Summer salary may also be available. Starting date may be as early as June 2007 and no later than September 2007.

To apply submit the following: a letter stating your qualifications and research interests, a resume, college transcripts, GRE scores, and 3 letters of reference by no later than **March 1, 2007** (early application is encouraged) to: Laura Meyerson ([Laura\\_Meyerson@uri.edu](mailto:Laura_Meyerson@uri.edu))

## **3. University of the Virgin Islands: Master of Marine & Environmental Science degree program**

Summary: We are pleased to announce that applications are now open for a new Master of Marine & Environmental Science degree program at the University of the Virgin Islands. Applications are due no later than **February 15, 2007**. More information is below and on the program website: [mmes.uvi.edu/](http://mmes.uvi.edu/).

Contact: Sylvia K. Vitazkova, PhD, Graduate Program Coordinator, Master of Marine & Env. Science  
EPSCoR, University of the Virgin Islands  
2 John Brewer's Bay  
St. Thomas, USVI 00802  
Tel: (340) 693-1427, Fax: (340) 693-1425 [svitazk@uvi.edu](mailto:svitazk@uvi.edu)

#### **4. University of Rhode Island: M.S./Ph.D. Graduate Student Assistantship**

Summary: I am seeking an individual with experience in coastal habitats, benthic communities, tidal wetlands or soil science to work on a study aimed at investigating relationships between subaqueous soil properties and the classification, use, and management of shallow-subtidal habitats. The goal of the study is to develop a soil-based interpretive tool that can be used to assess the condition of the shallow-subtidal habitats for use, management, and conservation. In this study, we will continue to develop a soil-based coastal management and conservation tool by examining relationships between subaqueous soils and a number of uses (and associated habitats) in shallow subtidal ecosystems. Responsibilities of the graduate assistant will be to inventory the soils and habitat of a range of shallow subtidal environments, to sample and characterize the soils in these settings, to evaluate these soil properties relative to use and management of the habitats.

Please send résumé, college transcripts, and statement of interest to:

Dr. Mark Stolt, Department of Natural Resources Science

One Greenhouse Road

University of Rhode Island

Kingston, RI, 02881

[mstolt@uri.edu](mailto:mstolt@uri.edu)

Phone 401-874-2915

fax 401-874-4561

#### **5. University of South Alabama: Estuarine Studies**

Summary: A M.Sc. graduate student is sought to carry out a research project funded by the Alabama Center for Estuarine Studies (ACES). This project will investigate marine fungi on seagrass beds in the northern shores of the Gulf of Mexico. The student applicant should have a background in botany, marine science, or related area, and preferably a course in fungi.

Funding: The successful candidate will be offered a full-time student salary and tuition for two years. The successful candidate must comply with all admission requirements for the Graduate School at the University of South Alabama. <http://www.southalabama.edu/admissions/gradrequire.html>.

Contact: Dr. Juan L. Mata ([jmata@usouthal.edu](mailto:jmata@usouthal.edu)), Dept. of Biological Sciences

University of South Alabama

Mobile, AL 36688

Dr. Just Cebrian ([jcebrian@disl.org](mailto:jcebrian@disl.org)), Senior Marine Scientist and Assoc. Prof. of Marine Sciences

Dauphin Island Sea Lab, AL

Phone 251 861 7568 Fax 251 861 7540 <http://ecosystemslab.disl.org>

#### **6. Memorial Univ. of Newfoundland: Grad Opportunities in Boreal Watershed Biogeochemistry**

Summary: Ph.D. and M.Sc. graduate assistantships are available at Memorial University in St. John, Newfoundland, Canada to study the effects of environmental change on the biogeochemistry in boreal watersheds. The impact of environmental change on dissolved organic matter (DOM) cycling within the continuum from streams to coastal marine ecosystems is the focus of a Canada Research Chair funded program. Depending upon strengths and interests students may pursue a graduate degree in Earth Sciences or Environmental Sciences. Links to these programs are: [www.mun.ca/sgs/prog\\_study/easc.php](http://www.mun.ca/sgs/prog_study/easc.php) and [www.mun.ca/sgs/prog\\_study/environmental.php](http://www.mun.ca/sgs/prog_study/environmental.php). Those interested are strongly encouraged to contact Sue Ziegler directly to discuss possible opportunities:

Dr. Susan Ziegler

Canada Research Chair in Environmental Science

Department of Earth Sciences

Memorial University of Newfoundland

St. John's, Newfoundland A1B 3X5

CANADA 709-737-2669 [sziegler@esd.mun.ca](mailto:sziegler@esd.mun.ca)

[www.mun.ca/earthsciences/Ziegler/Main.php](http://www.mun.ca/earthsciences/Ziegler/Main.php) [www.mun.ca/earthsciences/about/](http://www.mun.ca/earthsciences/about/)

## **JOB OPPORTUNITIES:**

Visit [www.fivecolleges.edu/sites/marine/job\\_links](http://www.fivecolleges.edu/sites/marine/job_links) for job search sites and links to the employment pages of several organizations.

### **1. Summer Employment on Star Island**

Summary: The Star Island Corporation is currently looking for applicants for seasonal work as “Pelicans” on Star Island, Isles of Shoals, off the coast of Portsmouth/Rye, NH. We are currently accepting applications for two positions: Island Naturalist and Assistant Island Naturalist. Responsibilities include guided tours of the fauna, flora, and geology of the island, maintenance of marine aquaria, and informal education programs targeted at students of all ages. (One of the Top Ten Summer Jobs in New England! – Yankee Magazine)

Employment period: mid-June to late August/early September, depending upon availability. Residency on Star Island is required 6 days/week. Contact our office Monday-Friday, 9-5, at (603) 430-6272, or E-MAIL us at [office@starisland.org](mailto:office@starisland.org) (Attention: Summer Employment). APPLY ONLINE by visiting our web site at [www.starisland.org](http://www.starisland.org), where you can download a complete application or apply online.

### **2. Marine GIS and Remote Sensing Position with NOAA**

Summary: While based in Silver Spring, MD most projects target the US Caribbean - Florida, USVI, with some work in Pacific territories as the need arises. The position involves various applications of remote sensing for oceanography and coastal zone management -manipulating IKONOS, Landsat and MODIS data - everything from geo-positioning, classification, modelling, benthic habitat mapping, spectral analysis, to change detection. The GIS portion of the work is related to watershed characterization, terrain analysis and seascape ecology. Essential skills: ERDAS, PCI, ESRI programs Knowledge of GPS helpful along with cartographic skills to support team projects, ability to lead training sessions or workshops. Bachelor's and 3 years experience or Master's Degree preferred.

For more info:

<http://ccma.nos.noaa.gov>      [http://ccma.nos.noaa.gov/ecosystems/coralreef/summit\\_sea.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/summit_sea.html)  
[http://ccma.nos.noaa.gov/ecosystems/coralreef/fl\\_mapping.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/fl_mapping.html)

Please email your resume and cover letter or any questions to

Aurelie Shapiro ([aurelie.shapiro@noaa.gov](mailto:aurelie.shapiro@noaa.gov))

### **3. Biological Technician in Seagrass Ecosystem Research Lab**

Summary: This is a full time position in a marine biology lab that studies vegetation and faunal relationships in estuaries around South Florida. Duties include: (1) identifying, processing, and enumerating marine flora and fauna; (2) field sampling of benthic fish and invertebrate using established protocols; and (3) lab and office duties. We are looking for reliable, hardworking individuals, who are willing and able to go into the field for a week at a time. Applicants must be physically fit, able to work independently and as a team member.

Qualifications: BA or BS in Environmental Studies or Biology. Applicants must be Open Water SCUBA certified. This is a full time entry level position (40 hours per week), no experience is required. Starting pay is \$10/per hour. A one-year commitment to the position is required due to the amount of training provided.

Direct any questions to [seagrasslab@gmail.com](mailto:seagrasslab@gmail.com). Please bring or email resume/cv with 3 references to Florida International University (University park campus) ECS 154. Ask for Andre or Ellis.

### **4. GIS Technician position available for Summer 2007**

Summary: Assateague Island National Seashore seeks to hire a GIS Technician to work in the Natural Resource Management Division during Summer 2007. The selected applicant will gain experience in scanning aerial photographs at high resolutions, utilizing ERDAS Imagine image processing software to

manipulate photographs, and maintaining and updating an MS Access database. The selected applicant will also have the opportunity to participate in fieldwork and to utilize GIS to support a variety of natural resource management projects, including threatened and endangered shorebird and plant studies, wildlife management, water quality monitoring, and coastal geomorphologic monitoring. Applicant must be a U.S. Citizen and planning to enroll as a full-time student for Fall 2007.

Applications must be received by **February 26, 2007**.

The position will be full-time for 12 weeks between May and August 2006, with the possibility of continued part-time work in the fall. Start date is flexible. Technician will be paid at a GS-04 rate (\$12.36 per hour). Park housing is available in close proximity to the park's Visitor Center and Headquarters in Berlin, MD for approximately \$150 per month.

Send form OF-612 (available at <http://www.usajobs.opm.gov/forms.asp>) or resume (to include information required on form OF-612), contact information for two references, college transcripts (unofficial is acceptable), and documentation of full-time student enrollment to:

Courtney Schupp  
Assateague Island National Seashore  
7206 National Seashore Lane  
Berlin, MD 21811  
[Courtney\\_Schupp@nps.gov](mailto:Courtney_Schupp@nps.gov)

## **5. Scuba Diving Surveys and Marine Conservation Projects in Mexico and the Seychelles**

Summary: Global Vision International is seeking expedition members for periods of 5, 10 and 15 weeks to join the GVI marine research teams. Dive training is available if required, up to PADI Divemaster. Activities include coral reef and fish monitoring surveys, turtle research, and environmental education and awareness programs. There is a free careers abroad field work placement and job vacancy service for former expedition members. The expedition training programme provides the skills necessary for research diving and marine survey work in order to accurately collect data and identify fish and coral. PADI Coral Reef Researcher Speciality is also available as part of this programme. Ten-week expedition members are eligible for a GVI internship to extend their field experience by a further research phase.

GVI offers a large range of jobs, internships and other exciting field work placements in the fields of education, research, environmental management and wildlife research alongside its partner organizations in countries across the world.

For more information about GVI visit [www.gviusa.com](http://www.gviusa.com) <<http://www.gviusa.com/>>

Further details are outlined on the relevant webpages at

<http://www.gviusa.com/pages/expeditionDetail.asp?expedition=66>

<http://www.gviusa.com/pages/expeditionDetail.asp?expedition=67>

and <http://www.gviusa.com/pages/expeditionDetail.asp?expedition=57>

Contact: Alyssa Mummert  
North American Regional Coordinator  
Global Vision International,  
252 Newbury Street #4  
Boston, MA 02116  
[Alyssa@gviusa.com](mailto:Alyssa@gviusa.com)

## **6. Natural Resource Inventory and Monitoring Intern (3 months / 7months)**

Job Description: The Nantucket Conservation Foundation, Inc. is seeking to hire two motivated, self-reliant individuals to assist the staff of its Department of Science and Stewardship with inventorying and monitoring natural communities and species on its properties.

Responsibilities: Assist with conducting vegetation and animal inventory and monitoring field work in a variety of vegetation types, including grasslands, heathlands, shrublands, and wetlands, some of which have or will be treated with brushcutting, prescribed burning, and/or sheep grazing. Participate in prescribed burns. Assist in data summary, entry, and analysis.

Qualifications: Must be currently enrolled as an undergraduate senior or graduate student or have recently completed an equivalent level of education in an Ecology, Botany, Zoology, or Environmental Science program (or a related field). Experience with plant and animal monitoring techniques, prescribed fire, GIS/GPS use, data entry and analysis, and/or the flora of Nantucket are desirable. A valid driver's license is necessary.

Dates/Hours: The **THREE MONTH** position begins in late May and ends in early September. The **SEVEN MONTH** position begins in early May and ends in late November. Exact start and end dates are somewhat flexible. Hours are Monday through Friday, 8 hours per day, although work times may vary depending on weather, etc.

Wages/Benefits: Housing and work-related transportation is provided. Wage is \$10-12 per hour, commensurate with experience. Medical Insurance, Unemployment Insurance, paid holidays, and paid sick days are not available to interns. Transportation is not provided after working hours.

Application: Deadline for applications is **January 31, 2007**. Please submit a cover letter, resume, and contact information for three references to:

Karen C. Beattie, Science & Stewardship Manager  
Nantucket Conservation Foundation, Inc.  
Post Office Box 13  
Nantucket, MA 02554-0013  
[kbeattie@nantucketconservation.org](mailto:kbeattie@nantucketconservation.org)

## MARINE SCIENCE IN THE NEWS

[Rare deep sea shark captured on film](#) (from CNN.com)

[Study: Beaufort Sea polar bears shift from ice to land for dens](#) (Assoc. Press)

[Climate report: Expect 1,000 year sea-level rise](#) (from MSNBC.com)

[Tuna used in sushi at risk of commercial extinction: WWF](#) (from CBC News)

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Visit the newly expanded links section of our website:

[www.fivecolleges.edu/sites/marine/links](http://www.fivecolleges.edu/sites/marine/links)

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