

## **Examples of Paid Internship and Research Assistant positions being offered by SES Faculty in 2012**

*Participation in the SES does not guarantee that students will receive one of these internships; most of these positions are open competitions. However, SES alumni do have an advantage in applying because they have received the appropriate training and because they are known personally to the staff making the hiring decisions.*

### **Seeking Environmental Science Summer Interns for work in Sub-Saharan Africa**

Ecosystems Senior Scientists and SES Faculty member, Dr. Chris Neill co-principle investigator

The Brown-Marine Biological Laboratory (MBL) program seeks up to three undergraduate interns for summer 2012 to work on a project that examines the environmental impact of the Green Revolution in Sub-Saharan Africa. Interns would conduct fieldwork on responses to agricultural intensification as part of the Partnership for International Research and Education (PIRE) Project at Brown.

The Millennium Villages Project is funded by the United Nations and the Bill and Melinda Gates Foundation. In these villages efforts have been made to attain Millennium Development Goals, partially through the implementation of fertilizer subsidies. The PIRE project is aimed at examining the environmental consequences of increased fertilizer use in the Millennium Villages in Kenya and Tanzania, in order to facilitate a new regional understanding regarding the impact of fertilizer that will inform strategies in N management to improve crop yields, conserve soil, and adapt to a changing climate.

Interns will collaborate with PIRE graduate students and will participate in fieldwork in Africa during June - August 2012 and conduct some laboratory work at Brown. Students with interests in agriculture, biogeochemistry, biodiversity, microbial ecology or remote sensing are encouraged to apply. Internships will span approximately 6 weeks. To apply, please send a current resume and a cover letter that describes your academic background and interests to:

Bernadette Horta  
Environmental Change Initiative  
Box 1951 – 167 Thayer Street  
214 Macmillan Hall  
Brown University, Providence RI 02912

### **Palmer Station LTER – West Antarctic Peninsula**

One internship position annually on “summer” research cruise (Dates 20 December – 10 February, remember this is Southern Hemisphere).

Contact Dr. Hugh Ducklow, lead investigator, Palmer Station LTER, Director, Ecosystems Center and SES faculty <http://dryas.mbl.edu/Staff/ducklow.html>

Three SES alums have completed this internship in past 3 years, Amanda Keledjian, SES '06, Grinnell College '08 in 2009/10; Will Daniels SES '06, Lawrence University '07 in 2010/11; Pam Moriarty, SES '09, Kenyon College '11 in 2011/12)

**Internships on the North Slope of Alaska, Toolik Lake LTER** (Ecosystems Center senior scientist and SES faculty member, Dr. Gus Shaver lead investigator).

<a href="#"><u>Summer Research Assistant - ITEX</u></a>	02/28/2012	Seasonal/Temporary	Ecosystems Center
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The Ecosystems Center is seeking two or three Summer Research Assistants to participate in a research project on CO<sub>2</sub> exchange and vegetation canopy structure of arctic tundra ecosystems.

<a href="#"><u>Summer Field Assistants - Arctic LTER</u></a>	02/01/2011	Seasonal/Temporary	Ecosystems Center
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The Ecosystems Center of the Marine Biological Laboratory is seeking applicants for summer field assistant positions on an ongoing ecological research project. These positions will be located at the Toolik Field Station in northern Alaska. For additional information about the Arctic Long Term Ecological Research (LTER) project, visit our website at <http://ecosystems.mbl.edu/ARC/>. Information...

<a href="#"><u>Summer Research Assistant - Arctic</u></a>	02/15/2012	Seasonal/Temporary	Ecosystems Center
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The Ecosystems Center at Marine Biological Laboratories in Woods Hole, Massachusetts is seeking applicants for a summer research position based in Alaska. Research will focus on Arctic grayling migration timing, growth, and survival as part of a larger project to determine how the shifting seasonality of Arctic river hydrology alters biotic linkages within Arctic aquatic ecosystems.

<a href="#"><u>Research Experience for Undergraduates (REU)- Arctic LTER</u></a>	01/26/2012	Seasonal/Temporary	Ecosystems Center
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The Ecosystems Center of the Marine Biological Laboratory is seeking undergraduate applicants for several Arctic research projects. The Research Experience for Undergraduate (REU) positions are available to U.S. citizens or Permanent Residents only who are currently enrolled as undergraduates at U.S. colleges or universities (no graduating seniors). Successful candidates will participate in fie...

<a href="#"><u>Summer Field Assistant</u></a>	01/19/2012	Seasonal/Temporary	Ecosystems Center
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The Ecosystems Center of the Marine Biological Laboratory is seeking applicants for summer field assistant positions to investigate the role of fire in Northern tundra ecosystems. These positions will be located at various locations on the North Slope of Alaska, and be based out of the Barrow Arctic Science Consortium (BASC) and Toolik Lake Field Station. Information about the Toolik Field St...

More than 25 SES alums have participated as arctic summer interns in the past 15 years. See Ecosystems **Annual Report** for description of a recent experience by Marshall Moore (SES 2010, Brown University 2012).

## Plum Island Estuary Long-term Ecological Research Program

Ecosystems Center Senior Scientist and SES faculty members Dr. Anne Giblin (Lead Investigator, PIE LTER) and Dr. Linda Deegan (TIDE project)

### Research Experience for Undergraduates (REU) - PIE LTER

02/17/2012

Seasonal/Temporary

Ecosystems Center

The MBL Ecosystems Center is seeking undergraduate applicants for summer research fellowships (REU) in watershed and estuarine ecosystems in Massachusetts. Fellowships are sponsored by the Plum Island Ecosystem Long-Term Ecological Research program (<http://ecosystems.mbl.edu/pie>). REU positions are available to U.S. citizens or permanent residents who are currently enrolled as undergraduates ...

### Research Experience for Undergraduates (REU) - TIDE

01/26/2012 Seasonal/Temporary

Ecosystems Center

The Marine Biological Laboratory is seeking applicants for the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation. The successful applicant will work as part of a large-scale, multi-disciplinary project examining the effects of excess nutrients on salt marshes in the Plum Island Estuary, MA (<http://ecosystems.mbl.edu/Tide/>).



SES TA (2011) and alumna of the program, Carrie Harris (Bates College 2011, SES 2009) collecting samples at the island of Canales de Tierra off the west coast of Panama in January 2012 (Liquid Jungle Lab\*). This project is lead by Ecosystems Center scientists, Drs. Ivan Valiela and Anne Giblin.

This job opportunity arose while Carrie was working at the Ecosystems Center as a TA in the SES program. She will work for the next eight months on this project, then return as a TA in the SES program. This cost sharing to create full-time year-round jobs is not uncommon at the MBL.

\*see <http://www.whoi.edu/page.do?pid=11521>

## SES Special Summer Internship in Ecological Genomics

**Posting Number:** 0000XXX (job description being processed by HR now, not yet advertised)

**Reference Code:**

**Department** Ecosystems Center/Bay Paul Center for Molecular Evolution

**Position Type:** Seasonal/Temporary

**Position Title:** Semester in Environmental Science (SES) Special Summer Internship

**Position Summary:** The MBL is seeking applicants for a summer research internship in molecular ecology/genomics to work with scientists at either the Ecosystems Center or Bay Paul Center for Molecular Evolution. *Successful candidates must have been participants in the Semester in Environmental Science (SES)* and will conduct independent research projects that may be linked to larger studies or that extend their independent research conducted during the SES program. The applicant is expected to start the program in early June and work full-time for 10-12 weeks during the summer of 2012. The intern is expected to collect and analyze data and present his/her research results as an oral presentations and in poster and written formats by the end of the fellowship.

**Additional Information:** The intern may be expected to assist principal investigators, postdocs, research assistants, and graduate students with other ongoing projects and gain experience in a variety of research areas related to ecological genomics or molecular methods in ecology. Accommodations are provided at the field station during field work studies.

**Basic Qualifications:** This fellowship is sponsored by the SES program ( <http://ecosystems.mbl.edu/SES> ). Applicants must have been students in the MBL's Fall semester SES Program and must be undergraduates (students graduating in 2012 are eligible). Applicants should have completed basic coursework in biology, chemistry and math. A dedicated work ethic, attention to detail, the ability to work as a member of a team, and a desire to learn new laboratory and/or field techniques are essential. Some experience with molecular methods (e.g. DNA extraction, gene amplification using the polymerase chain reaction, etc.) is helpful.

**From:** "Gaius Shaver" <gshaver@mbi.edu>  
**To:** "Kenneth Foreman" <kforeman@mbi.edu>  
**Cc:** "Anne Giblin" <agiblin@mbi.edu>  
**Sent:** Tuesday, March 6, 2012 11:40:06 AM  
**Subject:** Re: summer internships at Toolik

Hi Ken--the announcement of REU positions in the ARC LTER went out several months ago and is still open on the MBL web site. One person in this year's class, Hansen Johnson, has already been hired as an REU (by Adrian, to work on the fire). In December I was contacted by 2-3 other SES students from this year's class, and I encouraged them all to apply. The second ARC REU position will probably go to someone from Univ Alabama, because Alex Huryn has been delegated as the mentor for that position and he gets to make the choice. **There are still 3-5 summer RA positions open for work at Toolik, in LTER, ITEX, AON, and Fishscape projects.**

Cheers, Gus

Gaius R Shaver , Senior Scientist  
The Ecosystems Center , Marine Biological Laboratory , Woods Hole, MA 02543  
Phone: 508-289-7492, Fax: 508-457-1548, Email: gshaver@mbi.edu  
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**From:** "Anne Giblin" <agiblin@mbi.edu>  
**To:** "Kenneth Foreman" <kforeman@mbi.edu>  
**Cc:** "Gaius Shaver" <gshaver@mbi.edu>  
**Sent:** Tuesday, March 6, 2012 11:40:12 AM  
**Subject:** Re: summer internships at Toolik

We are going to offer **two internships at PIE**. We hope to get this squared away soon for PIE so if you are going to circulate anything say they should send it asap!

Anne Giblin, Senior Scientist  
The Ecosystems Center, Marine Biological Laboratory  
7 MBL Street, Woods Hole, MA, 02543  
(508)289-7488 (office), <http://ecosystems.mbi.edu>  
web page: <http://dryas.mbi.edu/Staff/giblin.html>

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