Undergraduate Research in Sustainable Biomaterials

Bioprocess Engineering for Sustainability
2013 Research Experience for Undergraduates
June 10-August 2
Virginia Tech

This National Science Foundation (NSF) sponsored Research Experience for Undergraduates (REU) gives undergraduate engineering students the opportunity to perform research and participate in educational programs in bioprocess engineering (BPE) and enjoy team-building and social activities in Blacksburg, VA. Research areas include synthetic biology and metabolic/genetic engineering for biofuel and biochemical production, protein engineering for biopharmaceuticals, and sustainable biomaterials. Participants will attend the 2013 American Chemical Society Green Chemistry and Engineering Conference in Washington, DC June 18-20.

Stipend: $4,000/summer + room & board. Review of completed applications will begin on February 1, 2013 and will continue until all spots are filled. Applicants should be rising sophomore, junior, or senior undergraduate students in any engineering discipline with an interest in bioprocess engineering. Underrepresented minorities and women are particularly encouraged to apply. The on-line application form can be accessed at: http://tinyurl.com/2012-VT-BioProcess-REU-App

Program information can be found at http://renewablemat.bse.vt.edu/BPE-REU.html

For more information contact:
Justin Barone, BPE NSF-REU Site Director
Biological Systems Engineering Department
Virginia Tech
(540) 231-0680
bpe-reu@vt.edu

CU Cleantech New Venture Challenge

The Leeds School of Business at the University of Colorado is hosting the regional New Venture Challenge Cleantech business plan competition. The competition awards a 1st place prize of $100,000 and qualification to the National competition with a chance to win an additional $100,000. This is a fantastic opportunity for innovative and entrepreneurial students. The competition is free to enter and the prize is sponsored by the U.S. Department of Energy.

For more information about the competition:
http://nvc.cucleantech.org/
http://techportal.eere.energy.gov/commercialization/natlibizplan.html
Unsure of your summer plans? Consider a 4 to 8 week summer study abroad experience! Choose from over 100 unique programs which offer academic coursework and internship opportunities and span every continent. The College of Engineering offers over 10 different summer programs specifically catered toward engineers who would like international experience directly related to engineering. The programs are affordable and offer a great experience for both first time and experienced travelers.

There is still plenty of time to apply and staff members at the College of Engineering International Office are here to help. Check out study abroad programs on our website today and schedule an appointment with one of our staff members to learn about specific programs, the application process, scholarship and financial aid availability, and more. Visit the link below to explore programs and schedule an information meeting appointment or stop by the office to speak with a staff member about study abroad opportunities.

http://www.engineering.iastate.edu/studyabroad/
eip@iastate.edu
112 Marston Hall
(515) 294-9295

Two upcoming events offer opportunities for you to gain presentation experience. If you are involved in mentored research, here are two upcoming events in which you can share your work:

Research in the Capitol will take place in the Rotunda of the Iowa Statehouse on March 26. Twenty students from each of ISU, UNI and UI will be chosen to display posters and discuss their research, highlighting the importance of undergraduate research to legislators, reporters, and top university administrators. Information about the submission process for prospective participants can be found at:

http://www.undergradresearch.iastate.edu/capitol.html

The submission deadline for Research in the Capitol is Friday, February 1.

ISU’s 7th Symposium on Undergraduate Research & Creative Expression will take place in the Memorial Union on Tuesday, April 16. The Symposium is a professional-style conference in which students will make oral presentations supported by PowerPoint at faculty-moderated sessions. More information about the Symposium and the submission process for prospective participants can be found at:

http://www.undergradresearch.iastate.edu/symposium/

The submission deadline for the Symposium is Friday, February 15.

Want to know more? Contact Dana Schumacher at dschumac@iastate.edu or 294-0172.
Honors Undergraduate Research: Fellowship at Iowa Lakeside Laboratory

What It Is
The Iowa Lakeside Laboratory Regents Resource Center announces the inaugural competition for six honors undergraduate research fellowships. Each fellowship comes with a $2,000 stipend, food and lodging expenses for one month at Lakeside Laboratory on West Okoboji Lake in northwest Iowa and up to $1,000 for supplies and equipment. Lakeside offers convenient accommodations with easy access to native and restored aquatic, wetland, and prairie habitats.

Who It Is For
The competition is open to Iowa State University, the University of Iowa, and University of Northern Iowa students in biology, geology, environmental science, entomology, and related fields who wish to conduct part or all of their honors research at Iowa Lakeside Laboratory in the Okoboji region. Eligible students should be part of a recognized honors program at their university or college.

How to Apply
Electronically submit the following information to stephen–hendrix@uiowa.edu
1. Maximum two-page description of your research project including a description of the portion of the project to be conducted at Iowa Lakeside Lab;
2. A copy of your most recent transcript at your university or college; and
3. A letter of reference from your Honors Mentor or Honors Program Officer.

When to Apply
Consideration of completed applications will begin January 15, 2013 and continue until all six fellowships are filled.

Questions?
Steve Hendrix, Ph.D.
stephen–hendrix@uiowa.edu • 319–335–1065
Department of Biology • The University of Iowa
Iowa Lakeside Laboratory
1838 Hwy 86 • Wahpeton, IA
Facebook.com/LakesideLab • LakesideLab.org

Pilar A. Garcia Student Achievement Fund
This fund was established by a private donor to support enrichment experiences for students at Iowa State University, including, but not limited to, study abroad, travel to conferences, research projects, etc. A student may request funding up to $1,000 per academic year.

Application deadlines:

November 15, 2012
April 1, 2013

Guidelines and application available at http://www.studentaffairs.iastate.edu/whatwedo/scholarships.php

Questions? Contact Martha Tanner, tannerma@iastate.edu or 294-0322.
Applications are now open for the Department of Energy Computational Science Graduate Fellowship (DOE CSGF) at https://www.krellinst.org/doecsgf/application/. This is an exciting opportunity for doctoral students to earn up to four years of financial support along with outstanding benefits and opportunities while pursuing degrees in fields of study that utilize high performance computing technology to solve complex problems in science and engineering.

Renewable up to four years, applications for the next class of fellows are due on January 8, 2013.

The DOE CSGF is open to U.S. citizens or permanent resident aliens who are planning full-time, uninterrupted study toward a Ph.D.

For more information regarding the fellowship and to access the online application, visit http://www.krellinst.org/csgf

Benefits of the Fellowship:
• $36,000 yearly stipend
• Payment of all tuition and fees
• $5,000 academic allowance in first year
• $1,000 academic allowance each renewed year
• 12-week research practicum at a DOE Laboratory
• Yearly conferences
• Career, professional and leadership development

REU in Renewable Energy

REU in Renewable Energy at Colorado School of Mines (May 27, 2013 to August 2, 2013)

The Renewable Energy Materials Research Science and Engineering Center (REMRSEC) REU program invites exceptional undergraduate math, science, and engineering students to participate in a ten-week summer research program addressing fundamental materials issues related to the science and technology of renewable energy. These highly interdisciplinary studies focus on multiple areas that are open to all materials science, engineering, physics, chemistry, mathematics, chemical engineering, and computer science majors.

Benefits include a $4,500 stipend, on-campus housing, travel reimbursement, and financial support to present research results at an upcoming national conference. Application materials, as well as videos of the college campus, REMRSEC, and previous student research projects can be found at http://remrsec.mines.edu/reu.htm.

The application deadline is February 1, 2013, although strong candidates will be accepted early. For more information contact Dr. Chuck Stone – Director, REMRSEC REU, Colorado School of Mines, 1523 Illinois Street, Golden, CO 80401 [email: cstone@mines.edu and phone: (303) 273-3762].