

## **STUDENT OPPORTUNITIES FAIR EXHIBITORS**

### **ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY (AURA)**

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The IINSPIRE LSAMP Program, in partnership with the Association of Universities for Research in Astronomy (AURA), will offer internships during 2016. This program is intended to provide students with work and research experience in a major astronomical observatory. Although all applicants will be considered, special consideration will be given to engineering and computer science students. In addition, applicants are expected to have course work and experience that will enable them to contribute to the work of the observatory.

Intern positions encompass the entire range of technical and scientific skills involved in operating modern observatories. To accomplish research in astronomy using the most advanced telescopes, the staffs of AURA's observatories include electrical engineers, mechanical engineers, optical engineers, software engineers. These engineers work in partnership with our scientists and participate in the end-to-end development of some of the world's most advanced astronomical instrumentation. The experience gained by students in the learning and research environment we offer would be broadly applicable in a number of industrial settings as well.

The Association of Universities for Research in Astronomy (AURA) is a consortium of 39 US institutions and 7 international affiliates that operates world-class astronomical observatories. AURA's role is to establish, nurture, and promote public observatories and facilities that advance innovative astronomical research. In addition, AURA is deeply committed to public and educational outreach, and to diversity throughout the astronomical and scientific workforce.

### **CENTER FOR BIORENEWABLE CHEMICALS REU PROGRAM**

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The National Science Foundation's (NSF) Engineering Research Center's Center for Biorenewable Chemicals (CBiRC) will host REU students who will work toward achieving CBiRC's core mission of transforming the US chemical industry by integrating biological and chemical catalysis systems to produce biorenewable chemicals. The REU students will work in CBiRC labs conducting fundamental research to address the underlying technical challenges in the development of new integrated catalytic systems for the conversion of bio-based feedstocks to industrial chemicals.

### **CENUSA BIOENERGY RESEARCH INTERNSHIP FOR UNDERGRADUATE STUDENTS**

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The summer 2016 CenUSA Bioenergy Research Internship Experience for Undergraduates will provide rich interdisciplinary training and engagement opportunities for undergraduate students in all areas of the bioenergy value chain to meet the workforce challenges of the emerging bioeconomy.

The research internship program will enroll a class of 12 students, with all students spending the first five days in the program at the Iowa State University host site. While a portion of the students will remain at Iowa State University, several of the students will then travel to one of CenUSA's partner institutions (depending on their research interests) to complete their summer program at a partner lab. All students will maintain contact with the program through distance technologies for weekly meetings, seminars, and final presentations.

For more information or to apply, visit: <http://www.abe.iastate.edu/cenusa/>

### **COMMUNITY COLLEGE INTERNSHIP (CCI)**

#### **U.S. DEPARTMENT OF ENERGY'S AMES LABORATORY AT IOWA STATE UNIVERSITY**

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The Community College Internship (CCI) program seeks to encourage community college students to

enter technical careers relevant to the DOE mission by providing technical training experiences at the DOE laboratories. Selected students participate as interns appointed at participating DOE laboratories, including the Ames Laboratory. They work on technologies or instrumentation projects or major research facilities supporting DOE's mission, under the guidance of laboratory staff scientists or engineers. Applications for the CCI program are solicited annually for the summer term. Internship appointments are 10 weeks in duration.

CCI website: <http://science.energy.gov/wdts/cci/>

Contact: Steve Karsjen, Education Programs Director, [karsjen@ameslab.gov](mailto:karsjen@ameslab.gov)

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## **EMERSON PROCESS MANAGEMENT, FISHER CONTROLS DIVISION**

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Nothing comes close to the career opportunities we provide at the Fisher business of Emerson. Whether you are a recent grad looking for a full-time opportunity or a current student looking for an experiential education opportunity, the Fisher business of Emerson offers challenging and rewarding work that will utilize and grow your knowledge, skills, and experience base. The Fisher business of Emerson is the largest control valve manufacturer in the world. Being part of a division that is the world leader in process controls systems and solutions shows our proven past and our promising future. As a global company, the Fisher business of Emerson is committed to continue to lead the industry with time-tested and innovative solutions. If you want to work in an environment where people, teamwork, and quality truly make a difference, Fisher is the place for you.

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## **IOWA BIOSCIENCES PROGRAM**

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## **NAHANT MARSH**

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Nahant Marsh is a 256 acre treasure nestled in Southwest Davenport. It is part of the 513 acre wetland complex that is bordered by the Mississippi River, Interstate 280, and Highway 22. Nahant Marsh preserve is one of the largest urban wetlands on the Upper Mississippi River. Nahant Marsh was used for skeet and trap shooting from the 1960's to the 1990's. Because of the lead left behind, the marsh was declared an EPA Superfund site and was cleaned up in 1999. After that time, the site was declared a preserve and educational center. The city of Davenport, the Nahant Board, Eastern Iowa Community College District, and River Action are all parts of Nahant Marsh.

Research is an integral part of Nahant Marsh. We are able to expand our knowledge of the ecosystems found here, which allows us to better maintain this amazing natural area. Research projects also allow students to participate in exciting projects and gain hands-on experience in their field of study. We offer research opportunities in the fields of Wildlife Biology, Ecology, Animal Behavior, Botany, Hydrology, Chemistry, Genetics, Geology, Geography, Toxicology, and many more.

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## **RISE<sup>UP</sup> PROGRAM AT IOWA STATE UNIVERSITY**

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## **SCIENCE UNDERGRADUATE LABORATORY INTERNSHIP (SULI)**

### **U.S. DEPARTMENT OF ENERGY'S AMES LABORATORY AT IOWA STATE UNIVERSITY**

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The Science Undergraduate Laboratory Internship (SULI) program encourages undergraduate students to pursue science, technology, engineering, and mathematics (STEM) careers by providing research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns appointed at participating DOE laboratories, including the Ames Laboratory. They perform research, under the guidance of laboratory staff scientists or engineers, on projects supporting the DOE mission.

Applications for the SULI program are solicited annually for three separate internship terms. Internship appointments are 10 weeks in duration for the summer term (May through August) or 16 weeks in duration for the fall term (August through December) and spring term (January through May) terms.

SULI website: <http://science.energy.gov/wdts/suli/>

Contact: Steve Karsjen, Education Programs Director, [karsjen@ameslab.gov](mailto:karsjen@ameslab.gov)

## **VISITING FACULTY PROGRAM (VFP)**

### **U.S. DEPARTMENT OF ENERGY'S AMES LABORATORY AT IOWA STATE UNIVERSITY**

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The Visiting Faculty Program (VFP) seeks to increase the research competitiveness of faculty members and their students at institutions historically underrepresented in the research community in order to expand the workforce vital to the Department of Energy (DOE) mission areas. As part of the program, selected university/college faculty members collaborate with DOE laboratory research staff on a research project of mutual interest. Faculty member participants may invite up to two students (one of which may be a graduate student) to participate in the research project.

Applications for the VFP are solicited annually for appointments to the summer term (May through August), which is 10 weeks in duration. Each of the participating DOE laboratories, including the Ames Laboratory, offer different research opportunities and interested faculty members are encouraged to contact Ames Laboratory scientists in advance to discuss research projects of mutual interest. All VFP faculty applicants must submit at the time of application a research project proposal co-developed with the collaborating research staff located at the host DOE laboratory.

VFP website: <http://science.energy.gov/wdts/vfp/>

Contact: Steve Karsjen, Education Programs Director, [karsjen@ameslab.gov](mailto:karsjen@ameslab.gov)

## **WIND ENERGY SCIENCE, ENGINEERING, AND POLICY - PHD PROGRAM**

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This program is an Interdisciplinary Graduate Education and Research Traineeship (IGERT), sponsored by the US National Science Foundation, to train PhD students in WESEP at Iowa State University. Expected time to degree is 4 years beyond Bachelors

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## **AUGUSTANA COLLEGE ADMISSIONS AND UNDERGRADUATE RESEARCH**

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Information will be available regarding research and internship opportunities, funding support, and transfer logistics. Augustana College is a liberal arts college located in Illinois.

## **THE UNIVERSITY OF IOWA ADMISSIONS**

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The University of Iowa is a Tier-1 research institution dedicated to developing the world's next wave of planners, problem solvers, and inventors. Iowa offers more than 200 areas of student, and students can easily combine multiple majors, minors, and certificates to develop a unique academic portfolio that helps them stand out when applying for jobs or graduate school. Undergraduate students pursuing a degree in science, technology, engineering, and mathematics learn from and work with expert faculty and staff, advancing cutting-edge research while gaining hands-on experience outside the classroom. Iowa offers 500+ student organizations covering topics ranging from academics and athletics to multicultural interests and student government, allowing students to form close-knit communities while exploring their passions.

## **THE UNIVERSITY OF IOWA COLLEGE OF ENGINEERING**

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