

# School of Engineering Weekly E-Newsletter

Week of January 18, 2016

Vol. 6 – Issue 14

## Announcements

**Updated NASA DEVOP Internship Program.** More information on Page 12.

**Naturalist Workshop in Spring.** More information on Page 13.

**Spring 2016 Graduation Application now available** – Graduation Application for Spring 2016 is now open, deadline will be **Monday, February 15, 2016**. **Remember:** you will need to apply for both graduation and commencement. For more information, click [here](#).

### **Important Dates:**

Last day to web add a course: January 25, 2016

Last day to add or drop a course: February 8, 2016

If you need assistance contact your [advisor](#).



## Internships, Jobs, Fellowships, & Graduate School

[\[NEW\] UC Santa Barbara Summer Research Experience](#)

[\[NEW\] California Ecology and Conservation](#)

[\[NEW\] Purdue- Engineering Summer Undergraduate Research Fellowship Program](#)

[\[NEW\] Texas A& M University - Engineering Undergraduate Summer Research Grant Program](#)

[\[New\] Maryland Sea Grant Research Experience](#)

[\[New\] NASA Internship](#)

[\[New\] Natural Reserve Systems - Field Studies Program](#)

[\[New\] Biosense Webster](#)

[\[New\] SRF Summer Scholars Program](#)

Update: [NASA DEVELOP Internship Program](#)

[Northwestern University Summer Research Experience](#)

[The Air Force Research Laboratory](#)

[UC Merced YES \(Young Engineer and Scientist Academy\) Volunteer Opportunities](#)

[GEICO Achievement Award](#)

[Entry Level Jobs and Internships at Pfizer](#)

[Santa Cruz Biotechnology-Entry Level Computer Science position](#)

Find more opportunities at: <http://engr-advising.ucmerced.edu/resources/internships>

# Advising/Student Services

Don't forget to check us out on [Facebook](#)! Need to contact your academic advisor? Check [here](#) for more information.

Visit our website at <http://engr-advising.ucmerced.edu/>

## Resources

### Academic Advising

#### Advising WALK-IN only

***Mondays: 10:30-11:45am\****

***Tuesdays: 10:00-11:45am\****

***Wednesdays: 1:00pm-3:00pm\****

***Thursdays: 1:00pm-3:00pm\****

***Fridays: By Appointment Only \****

***\*Check individual advisors availability [here](#)\****

**Last Names A-E (non-transfer students)** – Nadia Dwidar  
([ndwidar@ucmerced.edu](mailto:ndwidar@ucmerced.edu))

**Last Names F-L (non-transfer students)** – Christina Mayo  
([cmayo@ucmerced.edu](mailto:cmayo@ucmerced.edu))

**Last Names M-Q (non-transfer students)** – Position is Vacant  
([soe advising@ucmerced.edu](mailto:soe advising@ucmerced.edu))

**Last Names R-Z (non-transfer students)** – Karla Gonzalez  
([kgonzalez34@ucmerced.edu](mailto:kgonzalez34@ucmerced.edu))

**Stem Resource Center**– Free tutoring, STEM courses

Location: AOA 114

Website: <http://stemresourcecenter.ucmerced.edu/>

**Bright Success Center**– Peer Assisted Learning Support  
available start **September 9th.**

Location: KL 222

Website: <http://learning.ucmerced.edu/>

**Note:** Please check the website as the schedule will continue to develop. All sessions are **free** of charge, no sign-ups needed.

### **Center for Career & Professional Advancement (Career Services)**

Center for Career & Professional Advancement has open walk-in hours every day from 10 am to 2pm to assist you with career related questions.

If you would like to talk to the STEM Career Specialist, Robert Goodman, please email him at [rgoodman@ucmerced.edu](mailto:rgoodman@ucmerced.edu).

# Internship & Summer Opportunities

## [NEW]SRF Summer Scholars Program

The SRF Summer Scholars Program offers undergraduate students the opportunity to conduct biomedical research to combat diseases of aging, such as cancer and neurodegenerative diseases. Under the guidance of a scientific mentor, each Summer Scholar is responsible for his or her own research project in such exciting areas as genetic engineering and stem cell research. The Summer Scholars Program emphasizes development of both laboratory and communication skills to develop well-rounded scientists who can work equally well with other scientists or the general public.

Paid positions are available at such world-renowned research institutions as:

- Buck Institute for Research on Aging
- Harvard School of Medicine
- Sanford-Burnham Prebys Medical Discovery Institute
- Scripps Research Institute
- SRF Research Center
- Wake Forest Institute for Regenerative Medicine

Online application and full descriptions of each research project can be found at [www.sens.org/2016-summer-scholars](http://www.sens.org/2016-summer-scholars).

Applications will be accepted until 12 pm PST February 1, 2016.

# Internship & Summer Opportunities

## [NEW] Biosense Webster

### Part of the Johnson & Johnson FAMILY OF COMPANIES

Responsible for designing, identifying and screening new products and product improvements. With some supervision, manages the development phase of projects. Interfaces with Marketing, Engineering, Manufacturing and Quality to develop new products and enhance existing product(s). This position requires cross-functional collaboration with other development functions (i.e. Regulatory, Manufacturing and Quality) and a broad awareness of customer and market requirements.

#### **ELIGIBILITY**

- R&D internship: A highly motivated undergraduate student in his/her junior or senior year
- R&D Engineer: A highly motivated recent graduate for fulltime

Cumulative GPA > 3.5/4.3

Work eligible visa status or US citizenship

Significant experience in the design and fabrication of products will be considered a plus.

#### **CONTACT:**

Applicants are encouraged to email	Biosense Webster, Inc.
Mr. Min by email first with the	a Johnson & Johnson company
applicant's resume.	15715 Arrow Highway
Sungwoo Min— <a href="mailto:smin4@its.jnj.com">smin4@its.jnj.com</a>	Irwindale, CA 91706
Manager, Research and Development	Tel: +1 (909) 839 8463

# Internship & Summer Opportunities

## [NEW] NASA Internship

### **Student Application Deadlines**

Applications are due on March 1, 2016; however, NASA may begin selecting students as early as February 2016.

### **Budget Guidance for Grantees**

The stipend amounts for interns at NASA are typically the following, based on a 10-week long internship experience at 40-hours per week:

Undergraduate Student –\$6,000.00

Graduate Student (MS and PhD) – \$7,500.00

**For More information:**

<http://intern.nasa.gov>

# Internship & Summer Opportunities

## [Update] NASA DEVELOP Internship Program

For more information: <http://develop.larc.nasa.gov/>

The Summer term (June 6 – August 12) application window is now open until **February 12th**.

Projects are focused on addressing local and international community concerns while utilizing NASA's Earth observations. Participants work in teams to complete rapid research projects in 10 weeks with guidance from NASA and partner science advisors. These projects demonstrate to partner organizations how NASA remote sensing imagery can be used in water resource management, disaster response, ecological forecasting, and other applications. This is a great opportunity for individuals who are interested in practical applications of Earth Science using remote sensing and GIS.

The Summer term application window is open **January 4 - February 12**.

Applicants must have excellent communication and writing skills, and be able to work in a fast-paced environment. Responsibilities include: literature review, data processing and analysis, and the composition of deliverables including a technical paper, presentation, and video. Applicants should be able to commit up to 20 - 30 hours a week. Both paid and volunteer positions are offered. Paid positions are funded as consultants using a rate determined by application type, education level, and location.

Applicants are free to apply to any DEVELOP node, with the exception of some restrictions for international students (stated below). Applicants are given the opportunity to select their 1st and 2nd node choices. There are two nodes located in California:

- 1) The Jet Propulsion Laboratory in Pasadena near Los Angeles.
- 2) Ames Research Center in Mountain View near San Francisco.

To Apply: <http://develop.larc.nasa.gov/apply.html>

# Internship & Summer Opportunities

## [NEW] Maryland Sea Grant Research Experience for Undergraduates

THIS SUMMER, Maryland Sea Grant will offer fifteen undergraduates the opportunity to conduct marine research on the Chesapeake Bay — the program is especially designed for students majoring in such fields as biology, chemistry, ecology, physics, engineering, mathematics, and marine and environmental science. During this 12-week program (May 22-August 14), each student will work with a science mentor on an individual research project at one of two marine labs located on Chesapeake Bay: the University of Maryland Center for Environmental Science's\* (UMCES) Chesapeake Biological Laboratory in Solomons, Maryland, or its Horn Point

Laboratory in Cambridge, Maryland.

Research areas include:

- climate change • estuarine processes • molecular biology and genetics • benthic environment • environmental chemistry • physical oceanography • submerged aquatic vegetation • contaminants • modeling and analysis • fisheries • coastal observing systems

The Maryland Sea Grant Program, with support from the National Science Foundation, will provide each fellow with a stipend of \$6,000, housing costs and round-trip travel expenses.

To **apply**, visit the REU website (<http://www.mdsg.umd.edu/REU>) to complete the online application form or contact Maryland Sea Grant at 301-405-7500.

The **deadline** for receipt of applications is February 15, 2016.



# Internship & Summer Opportunities

## [NEW] Texas A&M University - Engineering Undergraduate Summer Research Grant Program

Join us this summer to immerse yourself in research and learn about graduate school.

### Eligibility

- Interest in and a desire to actively participate in ongoing research projects
- Minimum 3.25 cumulative GPA (exceptions can be made on a case-by-case basis)
- Be a U.S. citizen or permanent resident
- International students may apply only if currently enrolled at Texas A&M University
- Major in engineering or related science or math curriculum
- Completed sophomore year (60 hours) by the end of Spring 2016 (exceptions can be made on a case-by-case basis)
- Graduate no sooner than December 2016

### Benefits

- Learn about graduate school and funding opportunities
- Gain research experience
- \$5,000 stipend, in addition to housing accommodations
- GRE prep workshops

For more information and to apply, visit <http://tx.ag/usrg>

**Application deadline: February 1, 2016**



# Internship & Summer Opportunities

## [NEW] Purdue- Engineering Summer Undergraduate Research Fellowship Program

Engage in research this summer on Purdue's West Lafayette, Indiana campus. SURF matches undergraduates with a faculty member and graduate student mentor who introduce them to the research tools used on the cutting edges of science, engineering, and technology.

### Eligibility

- Undergraduate students in a baccalaureate degree program with at least four academic semesters completed by the start of the program are eligible to apply.
- Applicants must continue to be enrolled as an undergraduate the following Fall session
- Have a minimum cumulative GPA of 3.0 out of 4 at the time of application
- Be at least 18 years old by the time the program begins

For more information and to apply, visit <https://engineering.purdue.edu/Engr/Research/SURF/Programs/Campus>

**Application deadline:** Thursday, March 10, 2016

2016 Program Dates: May 23 – August 5

# Internship & Summer Opportunities

## [NEW] California Ecology and Conservation

A new course offering from the University of California

7 WEEKS IMMERSION IN THE PROCESS AND PRACTICE OF SCIENCE

Intensive instruction in critical and broadly applicable skills:

- ⇒ Hypothesis Development & Experimental Design
- ⇒ Scientific Writing, Presentation, and Publication
- ⇒ Statistical Analysis & Graphing

all in some of California's most beautiful wildernesses!

19 Quarter Credits / 15 Semester Credits

**Apply now at [ucnrs.org](http://ucnrs.org)**

Applications for Fall 2016 close January 24

# Internship & Summer Opportunities

## [NEW] UC Santa Barbara Summer Research Experience

The Institute of Collaborative Biotechnologies at UC Santa Barbara is offering a 10-week paid Summer Applied Biotechnology Research Experience (SABRE) from June 13 - August 19, 2016. Students from all science, technology, engineering, and mathematics disciplines are encouraged to apply. This program is a great opportunity for students who want to visit another university, conduct research in a state-of-the-art laboratory, and participate in career-development activities!

A few of the program highlights include:

- \$4,000 stipend
- Up to \$600 for travel expenses
- Housing and meals provided

Eligibility Requirements:

- Must be a science, engineering, and/or mathematics undergraduate or master student enrolled as a junior, senior, or masters student in the Fall 2016
- Must have a minimum B average
- Must be from an under-represented group--Blacks/African Americans, Native Americans/Alaskans, Pacific Islanders, and Latinos/Latinas. (Being female is not considered as being a member from an under-represented group.)

Program details, application forms, and previous summer research projects are posted online at <http://www.icb.ucsb.edu/sabre/>.

**The application deadline is February 17, 2016.**

Questions, please feel free to contact Stephanie Lupo via email at [sabre@icb.ucsb.edu](mailto:sabre@icb.ucsb.edu) or by phone at (805) 893-8334

# Internship & Summer Opportunities

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To Apply: <http://develop.larc.nasa.gov/apply.html>

# Workshops, Events & Sessions

## Naturalist Workshop in Spring

Spring 2016 Natural Reserve Training Workshop:

A non-credit, training workshop for undergraduates will be offered during the spring 2016 semester. This workshop and training is for students who want to become volunteer naturalists on the Vernal Pools and Grassland Reserve. The training provides background knowledge and hands-on experience to become naturalists. Students will visit the Reserve often for field trips and will learn about its interesting ecology and environmental history. Trained students will help lead field trips; accompany professors on class field trips; and help with research and conservation projects. Naturalists also have the opportunity to help with K-12 field trips.

The class will meet weekly, on Wednesdays, 9:00 to 12:00. The first class is January 27. The class meets in SSM 107. There is no fee for this workshop, but students are expected to attend all class meetings.

Please come to the first class meeting to learn more. Monique Kolster is the instructor.

For more information and to register for the workshop, please contact Mo at [mkolster@ucmerced.edu](mailto:mkolster@ucmerced.edu) (link sends e-mail).

# Scholarships, Programs & More

## CITRIS Research Exchange Webinar

Bringing AI Out of the Lab and into People's Lives

Date: Wednesday, December 09, 2015

Time: 12:00 - 1:00pm

Location: SE2 room 302

This webinar could be interesting to YOU because some of the topics that would be discussed includes using artificial intelligence in order to develop robotics to assist us with everyday problems, as well as starting a foundation for the future by providing a vision into the digital world.

More information about this webinar can be found here: <http://citris.ucmerced.edu/events/webcast-bringing-ai-out-lab-and-peoples-lives>

Email [sdinh5@ucmerced.edu](mailto:sdinh5@ucmerced.edu) to RSVP or with questions or concerns!

# Welcome Back!

