Internships in Nanosystems Science, Engineering and Technology (INSET)

Summer Undergraduate Research Experience for Community College Students
Summer Program Dates: June 21 to August 13, 2010

Application Deadline: February 28, 2010

Hosted by the California NanoSystems Institute (CNSI) at the University of California Santa Barbara.

The INSET program is supported by the National Science Foundation (NSF)

California NanoSystems Institute (CNSI) and the Center for Nanotechnology in Society (CNS)

This internship program brings community college undergraduates to the UC Santa Barbara campus for a summer research experience. Interns will gain first-hand experience in scientific investigation in a dynamic, collaborative research environment. They are matched individually with UCSB faculty and graduate student mentors who will provide training and support. Interns attend weekly meetings, special seminars, and have the opportunity to develop their presentation skills throughout the summer.



The California NanoSystems Institute (CNSI) is a science and engineering research center at UC Santa Barbara. Researchers at CNSI belong to several different academic departments including chemistry and biochemistry, physics, biology, engineering, materials science, and computer science. CNSI research determines new ways of integrating nanometer-scale building blocks into new materials, devices and systems with capabilities far exceeding those found in nature.

CNSI collaborates with the *Center for Nanotechnology in Society (CNS)* to study the societal implications of nanotechnology, including risk perception, historical contexts, and technological innovations. At least two INSET projects will be within the scope of CNS research.

Students are welcome to apply for internships with both centers, please see the application form for more details.

The Program:

- The INSET program will run from June 21 to August 13, 2010.
- Interns will receive a stipend of \$3,000 total for 8
 weeks at 35 hrs/week. Interns are not allowed to
 hold other jobs or attend summer courses during the
 internship.
- We will provide \$900 for housing expenses, or arranged accommodations in University apartments for free. Students will arrange their own meals.
- Travel costs to and from the UCSB campus will be provided for students outside the local area.

Student Eligibility:

This program is open to undergraduate students who meet all of the following requirements:

- Currently enrolled at a community college in California
- 2. A US citizen or permanent resident
- 3. Majoring or intends to major in science, engineering, social science or mathematics
- 4. Has satisfied the following course/unit requirements: (1 semester unit = 1.5 quarter units)
 - Completed or currently enrolled in a minimum of 4 semester units of Calculus
 - Completed a minimum of 12 semester units in science and/or engineering courses <u>for</u> <u>internships with California NanoSystems</u> <u>Institute</u>
 - Completed a minimum of 12 semester units in science, engineering, and/or social sciences <u>for</u> <u>internships with Center for Nanotechnology in</u> Society

Student Application:

- See information on following page about the necessary components for completing an application.
- Application postmark/e-mail deadline is February 28, 2010.
- Award notification will begin by mid-April 2010.

To learn more about ... go to the following websites:

CNSI Research and Faculty: http://www.cnsi.ucsb.edu CNS Research: http://www.cns.ucsb.edu

Former INSET student projects: http://education.cnsi.ucsb.edu/inset.html

Find faculty under the "Directory" link

INSET Application Information

A COMPLETED INSET APPLICATION INCLUDES THE FOLLOWING:

- 1. On-line registration of your application go to http://education.cnsi.ucsb.edu/inset.html and follow the links to "Application Process"
- 2. A completed application form see next page
- 3. A statement of interest explaining why you are interested in a research internship experience, and what you feel you can contribute to it. BE SPECIFIC for example, you might discuss how a particular experience or person inspired you to study science. You should also include a discussion of your future academic and career plans. Your essay should be typed, and at most one page long.
- 4. A copy of your unofficial college transcript.
- 5. A letter of recommendation from a course instructor, TA, or employer who is familiar with your <u>scientific</u> skills. A letter of recommendation form is included in this packet.

Comments:

- > Item #1 MUST be completed on-line, on the web. All other items (#2, 3, 4 and 5) may be sent by e-mail or post-mail. (Electronic mail is preferred.)
- Acceptable file formats for e-mail attachments are Microsoft Word (doc) and Adobe Acrobat (pdf).

 Transcripts should be scanned in and converted to pdf file format. If you don't know how to do this, send the paper copy by regular post-mail.

Application E-mail/Postmark Deadline is February 28, 2010 Incomplete applications will not be considered

Please e-mail application materials to:or post

inset@cnsi.ucsb.edu

(e-mail is preferred)

....or post-mail application materials to:

INSET Program

CNSI

University of California

Santa Barbara, CA 93106-6105

Questions or Concerns about INSET? Contact....

M. Ofelia Aguirre
CNSI
University of California
Santa Barbara, CA 93106-6105
(805) 893-7472, aguirre@cnsi.ucsb.edu

***REMEMBER TO REGISTER YOUR APPLICATION ON-LINE AT http://education.cnsi.ucsb.edu/inset.html ***

	Summer 2010 Student Applica				
	Science and Math courses that you have				
	AL SCIENCE:				
SCIENCE, ENGINEERING, AND SOCIA	AL SCILINGE.				
MATHEMATICS:					
Please circle your level of experience w	ith the following types of software/program	mming:			
Word processing: none/ some/ a lot	Databases: none/ some/ a lot	Please list here any programming			
Spreadsheets: none/ some/ a lot	Graphics/Media: none/ some/ a lot	languages you know:			
Presentation: none/ some/ a lot	Web authoring: none/ some/ a lot				
Do you have experience in working with medical equipment, etc) Please explain:		s; electrical, mechanical, construction, or			
research with either center please check		·			
CNSI - Science/Engineering Internship □ CNS - Social Science Internship □					
Please go to the CNSI (http://www.cnsi. research areas who/which interest you:	ucsb.edu) or CNS website (http://www.cn	s.ucsb.edu) and identify 3 or 4 faculty or			
1	2				
·	Z				
3.					

University of California Santa Barbara CA 93106-6105

An electronic versi	on of this letter	is available a	at <u>http://educa</u>	tion.cnsi.ucs	sb.edu/inset.html	
Student Name:						
Lette	er of Recon	nmendatio	on for INSE	ET Progra	am	
To the Recommender:				•		
The student who has asked for you internship program in science and Rehabilitation Act of 1973 which handicap the applicant may have	d engineering prohibits disci	at UC Sant	ta Barbara. (Our prograi	ms comply with t	he
Recommender's name:				_		
Title and Institution:						
E-mail address:			_ phone :			
Please place check marks to rank opportunity to evaluate student in			ving qualities	(leave und	checked if you ha	ven't had
	Exceptional	Excellent	Very Good	Good	Fair - Poor	7
Maturity and self-confidence	Top 1%	Top 5%	Top 20%	Top 40%	Bottom 60%	_
Work ethic, responsibility						_
Initiative, motivation						-
Interest in science / engineering						_
Intellectual ability						-
Problem solving skills						-
Laboratory skills						_
Communication skills - written						_
Communication skills - oral						_
Ability to work well with others						_
Ability to work well with others						
Please answer the following quesHow long have you known this				separate le	etter to address th	nem.
What do you know of this stud	dent's future e	educational	and/or caree	er plans?		
Please use the space below t potential to succeed in a sciential to sciential				this studer	nt's abilities, char	acter, and