

# Research Internships in Science and Engineering (RISE)

## Summer 2007 Program Information

June 19- August 24

Sponsored by the Materials Research Laboratory (MRL), the California NanoSystems Institute, and the College of Engineering at the University of California Santa Barbara

### Research Internships in Science and Engineering:

The Materials Research Laboratory (MRL), the California NanoSystems Institute, and the College of Engineering at the University of California Santa Barbara are seeking undergraduate science and engineering majors who are interested in pursuing a research experience. This internship program will bring undergraduate students from around the country to the UC Santa Barbara campus for a 10-week summer research experience.

Interns will gain first-hand experience in scientific investigation in a dynamic, collaborative research environment. They will be matched individually with UCSB faculty and graduate student lab mentors who will provide training and support.

In addition to research, the interns will also participate in weekly group meetings to develop oral presentation skills, attend special seminars and present their results at an end-of-summer poster session.

### Web Sites...

To learn more about MRL, CNSI, and College of Engineering research and faculty, please go to the following web sites:

[www.mrl.ucsb.edu](http://www.mrl.ucsb.edu)

[www.materials.ucsb.edu/materials/igert.html](http://www.materials.ucsb.edu/materials/igert.html)

[www.engineering.ucsb.edu/](http://www.engineering.ucsb.edu/)

Our faculty also work in the Life Science, Chemistry and Biochemistry, Chemical Engineering, Computer Engineering, Mechanical Engineering, Geological Science, and Physics Departments

### Questions or Concerns?

Contact Dr. Patricia Halpin at (805) 893-5314, or [rise@mrl.ucsb.edu](mailto:rise@mrl.ucsb.edu)

### Program Details:

1. The Summer RISE program will run from June 19 to August 24, 2007.
2. Approximately 10 internships will be awarded in all areas of science or engineering. Awards will be concentrated in, but not limited to, the MRL and the College of Engineering.
3. The stipend for undergraduate interns is \$3,800 total for 10 weeks at 35 hrs/week.
4. We will provide up to \$1000 for housing expenses, or arranged accommodations for free.
5. Travel costs up to \$500 will be provided for travel to and from the UCSB campus.

### Student Eligibility:

This program is open to any science or engineering undergraduate student who meets the following requirements:

- Will be enrolled as a sophomore, junior or senior in Fall 2007
- Is a US citizen or permanent resident

### Application Process:

An internship application must include the following components (see application form for more details)

1. A completed student application form (attached)
2. A statement of interest
3. A copy of your unofficial transcript
4. One letter of recommendation

### Previous Intern projects:

To learn more about previous intern research projects, please visit the RISE web site: <http://www.mrl.ucsb.edu/RISE>

### Send your application to:

Dr. Patricia Halpin  
Materials Research Laboratory  
University of California  
Santa Barbara CA 93106-5121

Or via e-mail to [rise@mrl.ucsb.edu](mailto:rise@mrl.ucsb.edu)

Fax: (805) 893-8502

### APPLICATION Deadline: FEBRUARY 23, 2007

Award announcements will begin by April 20, 2007

Only complete applications will be reviewed for awards.

# Research Internships in Science and Engineering (RISE)

Summer 2007 Student Application Form

## **A COMPLETED INTERNSHIP APPLICATION INCLUDES THE FOLLOWING:**

- 1. A completed application form--see next page**
- 2. A statement of interest** explaining your research interests, background, and how this internship fits into your future career goals. Your essay should be typed, and at most one page long. **OR** If you are a current UCSB undergraduate with a research project and faculty sponsor, you may turn in a project proposal in lieu of the statement of interest.
- 3. A copy of your unofficial transcript**
- 4. A letter of recommendation** from a course instructor, TA, or employer who is familiar with your scientific skills.

*All items may be sent by email. Acceptable file formats for attachments are Microsoft Word and Adobe Acrobat (pdf). Unofficial transcripts can be scanned in and converted to pdf file format, or downloaded from online grade reporting systems. If you don't know how to do this, send the paper copy by post (snail-mail).*

**PLEASE PUT YOUR LAST NAME IN THE FILE NAME OF ALL ATTACHMENTS!**

**Application Deadline is February 23, 2007**

### **Questions or Concerns about the RISE program? Contact:**

Dr. Patti Halpin  
MRL  
University of California  
Santa Barbara, CA 93106  
(805) 893-5314, rise@mrl.ucsb.edu  
Fax: (805) 893-8502

# RISE - Summer 2007 Student Application Form

All of these fields must be completed (above the line)

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

Please check one, you must be a US citizen or permanent resident to participate in RISE

US Citizen  Permanent Resident

Current Address at School:

Street \_\_\_\_\_

City, State \_\_\_\_\_

Zip \_\_\_\_\_ Cell Phone \_\_\_\_\_ Phone(if different) \_\_\_\_\_

Permanent Address:

Street \_\_\_\_\_

City, State \_\_\_\_\_

Zip \_\_\_\_\_ Phone \_\_\_\_\_

Current School: \_\_\_\_\_

Dates of Attendance: \_\_\_\_\_

Field of Study/Major \_\_\_\_\_

Class year to be entered in Fall 2007 (Please check one):  Sophomore  Junior  Senior

Expected Graduation Date \_\_\_\_\_

Current plans after graduation (It's OK to say you don't have any)

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All of the fields below this line may be left blank.

Transfer students:

Community College previously attended: \_\_\_\_\_

Dates of Attendance: \_\_\_\_\_

The following information is optional, but is requested for future reporting to the National Science Foundation:

Gender (please check one)  Female  Male

Ethnicity (please check all that apply)  African-American  Asian  Caucasian  Latino

Native American/Alaskan  Pacific Islander  Other

If you chose "other", please specify \_\_\_\_\_

Do have any disabilities or special needs?  No  Yes

If yes, please explain: \_\_\_\_\_

Will you be the first in your family to graduate from college?  No  Yes

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

e-mail Address (print CLEARLY) \_\_\_\_\_ Phone \_\_\_\_\_

Please list the person that you have asked to write a letter of recommendation: (1 letter is required)

Name \_\_\_\_\_ e-mail: \_\_\_\_\_

Please list all relevant coursework that you have completed or are currently taking:

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The following questions will help us in finding suitable project placements for interns:

Please describe your experience in working with computers. If you have programming skills, please be specific.

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Please give a brief description of your work experience. We are interested in ALL kinds of jobs, including non-scientific and unpaid (volunteer) work:

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Do you have experience in working with technical equipment or tools? (Shop tools, electrical/mechanical/construction/medical equipment, etc), Please explain:

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Please go to the MRL, IGERT and College of Engineering web sites (see 1<sup>st</sup> page for site addresses) and identify 3 or 4 faculty at UC Santa Barbara who do research that interests you. Please note that this does not guarantee placement with your chosen faculty member.

1. \_\_\_\_\_ 2. \_\_\_\_\_  
3. \_\_\_\_\_ 4. \_\_\_\_\_

**APPLICATIONS must be e-mailed or postmarked by FEBRUARY 23, 2007.**  
**Only complete applications will be considered for selection.**

**Send applications to:**

Dr. Patti Halpin  
MRL  
University of California  
Santa Barbara CA 93106-5121

**Or by e-mail to [rise@mrl.ucsb.edu](mailto:rise@mrl.ucsb.edu)**  
**Fax: (805) 893-5314**

Student Name: \_\_\_\_\_

### Letter of Recommendation for UCSB RISE Program

To the Recommender:

The student who has asked for your recommendation is applying to a summer undergraduate research internship program in science and engineering at UC Santa Barbara. You may use the form below, provide a separate letter, or both. Our programs comply with the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap. Please do not refer to any handicap the applicant may have.

Recommender's name: \_\_\_\_\_

Title and Institution: \_\_\_\_\_

e-mail address: \_\_\_\_\_ phone : \_\_\_\_\_

Please place check marks to rank this student in the following qualities (leave unchecked if you haven't had opportunity to evaluate student in a particular area)

	Excellent Top 5%	Very Good Top 20%	Good Top 40%	Fair Top 60%	Below average Bottom 40%
Maturity and self-confidence					
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					

Please answer the following questions in the space below, or attach a separate letter to address them.

1. How long have you known this student, and in what capacity?
2. What do you know of this student's future educational and/or career plans?
3. Please give us your impressions related to this student's abilities, character, and potential to succeed in a scientific research internship.

E-MAIL (OR POSTMARK) DEADLINE FOR LETTERS IS FEBRUARY 23, 2007

Please e-mail your completed letter to us at [rise@mrl.ucsb.edu](mailto:rise@mrl.ucsb.edu). Please put the student's last name in the file name of all attachments. Alternatively, you may mail a hard copy to

Dr. Patti Halpin, MRL, University of California, Santa Barbara, CA 93106-5121