NATIONAL SCIENCE INTERNSHIPS

For Further Information regarding Internships, contact Judy White or Lisa Moss at the Career Services Center, (310) 434-4337

Internships in PHYSICAL & LIFE SCIENCES, CHEMISTRY, COMPUTER SCIENCE, ENGINEERING, TECHNOLOGY, MATH, & ENVIRONMENTAL FIELDS

Prepared 6/2013
Drop-in Meetings for Help in Applying to these Wonderful Internships

The Career Services Center is located in the Counseling Village, east of the bicycle park on Pearl Street. Early in the fall is a good time to begin the process of applying for the summer science internships. Some of the science internship programs take place during the school year.

Mon: 2:30pm - 4:30 pm
Tues: 10:00am - 12:00pm
Wed: 3:00pm - 4:30pm
Thurs: 10:00am - 12:00pm

List of Agencies, Laboratories and Universities Offering National Science Internship Opportunities

Community College Institutes (CCI) for Science and Technology;
Lawrence Berkeley National Laboratory & Other National Laboratories

*Must be US citizen or permanent resident*

**Dates of the Internships:** A summer program, 10-weeks between May – August. Some of the labs may have some flexibility on start dates for interns who can’t start on the first day due to academic reasons. Check with the facility to see if it can accommodate your schedule.

**Website:** [http://science.energy.gov/wdts/cci/](http://science.energy.gov/wdts/cci/)

**Eligibility:** Any undergraduate student who is a U.S. Citizen or Permanent Resident, at least 18 years of age, and enrolled fulltime in an accredited U.S. College or University. The student must have completed at least one semester. In addition, the student must have completed at least 6 credit hours in science, mathematics, engineering, or technology course areas and completed at least 12 credit hours towards a degree. The program is for students interested in a career in science, math, engineering, or technology, including computer science.

**Applications Deadline:** Application submissions open at the beginning of October. *Get your application in as soon as possible!!* The deadline to apply is early in January; see website for exact deadline date for a particular year. The Labs usually begin making internship placement offers on February 1. The final placement offers are made in early May.

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1 Prepared by Judy White, 6/2013
Community College Institutes (CCI) for Science and Technology; Lawrence Berkeley National Laboratory & Other National Laboratories (con’t)

Description of Internships: A 10-week program, 40 hours per week, from May through August. Students work in one of the various labs with scientists or engineers on projects related to the laboratories’ research programs. The different laboratories each offer different research opportunities (see Choosing a Lab).

How to Apply: Apply online through the website. The online application system will guide applicants through the application requirements.

Stipend & Housing: $500.00 per week; program pays round trip costs to come to the lab for interns coming from more than 50 miles away; a housing allowance is provided when housing is not directly available.

List of Possible Labs: Ames Laboratory (Iowa), Argonne National Laboratory (Illinois), Brookhaven National Laboratory (New York), Fermi National Accelerator Laboratory (Illinois), Oak Ridge National Laboratory (Tennessee), Lawrence Berkeley National Laboratory (California), Pacific Northwest National Laboratory (Washington), Princeton Plasma Physics Laboratory (New Jersey), SLAC National Accelerator Laboratory (California), Thomas Jefferson National Acceleratory Facility (Virginia).

Summer Undergraduate Research Fellowships (SURF) through Caltech

International students are eligible for to participate in SURF on the Caltech campus.

Internships at JPL are for US citizens or permanent residents only.

Caltech’s Summer Undergraduate Research Fellowships (SURF)

Dates of Internships: Mid-June to late August, 10-week period in the summer

Location of Internships: Caltech in Pasadena, California

Website: http://www.surf.caltech.edu/

Eligibility: Cumulative GPA of at least 2.5/4.0; be a continuing undergraduate student, complete the second semester or third quarter at your college or university, not be under any disciplinary sanction.

Applications Deadline: Usually during February

Description of Internships: SURF is modeled on the grant-seeking process. Students collaborate with potential mentors to design and develop a project. Applicants write research proposals for their projects. A faculty committee reviews the proposals and recommends awards. Students will be able to develop a research question, use information found in the literature, develop a research proposal, apply methodology, collect and analyze data, and communicate findings.

How to Apply: Students have to contact a Caltech or JPL staff mentor and collaborate with the mentor to develop and define the research project. Non-Caltech students usually have to accomplish this discussion via email, phone, or fax. If a student is in the area we encourage him/her to visit the campus and meet the mentor. The mentor must be a member of the Caltech faculty or JPL technical staff. A couple of methods for identifying a mentor are: Review the Announcement of Opportunities website or review the SURF Abstract Book (available online). See other methods suggested on the website. Submit an application online
Summer Undergraduate Research Fellowships (SURF) through Caltech (con’t)
directly to the SFP (Student-Faculty Programs) online system. The application includes other
documents as well. See the website for further information about how to apply and interview
guidelines.

Stipends & Housing: SURF Fellows are considered Caltech student employees and will receive $600/week. SURF has extremely limited funding for non-Caltech students. In most cases, mentors will have to pay the full award amount to non-Caltech interns. Students may live in Caltech housing during the ten weeks of SURF. Boarding rates are finalized in late spring. More housing information is available on the website.

Minority Undergraduate Research Fellowships (MURF) through Caltech

Be a US citizen or permanent resident

Caltech’s Minority Undergraduate Research Fellowships (MURF)

Dates of Internships: Mid-June to late August, a 10-week period in the summer
Location of Internships: Caltech in Pasadena, California

Eligibility: Cumulative GPA of at least 3.2/4.0; be a current sophomore, junior or non-graduating senior, completed the second semester or third quarter at your college or university, not be under any disciplinary sanction, have an interest in pursuing a Ph.D. or M.D./Ph.D. The MURF program is very competitive. Students with prior research experience are encouraged to apply.

Applications Deadline: Early January

Description of Internships: MURF students carry out individual research projects under the mentorship of Caltech faculty or JPL technical staff over a 10-week summer period; they may participate in a wealth of programs and activities coordinated by the Student-Faculty Programs office.

Goal of Program: Provides support for talented undergraduates to spend a summer working in a research laboratory at Caltech or the Jet Propulsion Laboratory. The MURF program aims to increase the participation of underrepresented students (such as African American, Hispanic, and Native American, females who are underrepresented in their discipline and first-generation college students) in science and engineering Ph.D. or M.D./Ph.D. programs and to make Caltech’s programs more visible to students not traditionally exposed to Caltech. The program supports Caltech’s commitment to training a diverse set of science, technology, engineering and math leaders.

The Application Process: Students submit an online application. They must also submit three letters of recommendation from faculty in relevant disciplines or former research mentors. Students must also upload an unofficial transcript. Students awarded a MURF fellowship will be required to submit a project plan after consultation and collaboration with the mentor. The submission of the project plan and fellowship forms by the deadline will constitute acceptance of the award.

Stipends & Housing: MURF students receive payments of $600/week. Housing will be available on the Caltech campus.
U.S. Department of Transportation (DOT) Internship Program for Diverse Groups (STIPDG)

US citizenship required

Dates of Internships: Mid-June to late August, 10-week period in the summer
Location of Internships: Washington, D.C. area or throughout the United States.
Website: http://www.fhwa.dot.gov/education/stipdg.htm

Eligibility: Currently enrolled in degree-granting programs. Must be juniors or seniors in the fall after the summer program. Undergraduates who are scheduled to graduate during the spring or summer semesters are eligible under specific circumstances. See the website for clarification. The STIPDG is open to all qualified applicants but is designed to provide qualified women, persons with disabilities, and members of diverse groups with summer opportunities in transportation where these groups have been under-represented. Priority will be given to Applicants with GPA’s of 3.0 or better.

Application Deadlines: The deadline to apply is usually in December for a summer internship. See eligibility requirements for current deadlines.

Description of Program: Funded by the FHWA's Office of Civil Rights' On-the-Job Training Supportive Services Program, the objective of the STIPDG is to provide college/university students with hands-on experience and on-the-job training while working on current transportation-related topics and issues. Applicants must be available and able to participate through the duration of the 10-week program including closing ceremonies.

How to Apply: Complete and submit all required information and documents requested online at http://stipdg.e.twc.edu/. Refer any questions or inquiries to DOTSTIPDG@twc.edu or to the following address: STIPDG Internship Program, The Washington Center For Internships and Academic Seminars, 1333 16th Street, NW, Washington, DC 20036.

Stipend and Housing: Stipends for summer 2013 were $4000 for 10 weeks. The program provides funding for shared housing for participants accepting assignments more than 50 miles (one way) from their permanent residences. The STIPDG pays for travel and transportation expenses to the summer program work site area.

Environmental Protection Agency (EPA), National Network for Environmental Management Studies Fellowship Program (NNEMS)

Must be US citizen or permanent resident

Dates of Internships: Can work full-time at EPA during the summer or part-time during the school year.
Location of Internships: The EPA Headquarters office is in Washington, D.C. and there are 10 10 regional EPA offices and laboratories throughout the United States.
Website: www.epa.gov/Education/NNEMS/

Eligibility: Enrolled for academic credit at an accredited educational institution. Pursuing an educational program directly related to pollution control or environmental protection for the duration of the fellowship. 3.0 cumulative gpa based on a scale of 4.0 at the time of the application date. Completion of at least four courses related to the field of environmental studies.

Application Deadlines: The annual deadline for submitting applications for NNEMS fellowships is typically in February of each year. Please visit the NNEMS website at www.epa.gov/education/students.html for the official application deadline.

Description of Program: Provides students with practical research opportunities and experiences in an Environmental Protection Agency office or laboratory. Interest in the fields of environmental protection, such as pollution control, science, engineering, technology, social science, and speciality areas. Students must be pursuing an educational program directly
Environmental Protection Agency (EPA), National Network for Environmental Management Studies Fellowship Program (NNEMS) (con’t)
related to pollution control or environmental protections for the duration of the fellowship. The program locations are in the Washington, D.C. area or in the 10 regional offices throughout the United States. Mailing address: NNEMS Fellowship Program, Tetra Tech EM Inc., 1881 Campus Commons Drive, Suite 200, Reston, VA 20191
How to Apply: Apply online at www.epa.gov/education/students.html. Review a summary of the application procedures and eligibility requirements and download blank application forms. Stipend & Housing: The amount of the stipend is based on the student’s level of education and the duration and location of the project. Most positions have salaries ranging from GS-2 to GS-7 level (federal government salary scales). The EPA is not responsible for a student’s travel expenses to and from the project site or for the student’s housing costs.

JPLUS (The Jet Propulsion Laboratory Undergraduate Scholars Program)
Must be US citizen or permanent resident
Website: http://jplus.jpl.nasa.gov/
Contact: Richard Alvidrez
Phone: 818-354-1214
Eligibility: High achieving students attending one of the 30 closest colleges to JPL and Pasadena and majoring in engineering, mathematics, computer sciences or the physical sciences. Must be selected by a community college faculty member to obtain this honor.
Goal of Program: JPlus is a student recognition and award event. The program’s goal is to recognize the achievement of high potential students attending the 30 closest community colleges to JPL and Pasadena, majoring in engineering, mathematics, computer sciences or the physical sciences. Additional information about JPL educational programs can be found at http://www.jpl.nasa.gov/education/internships/. Students are selected by the community college faculty near the end of the freshman year to be recipients of this recognition award. It involves a $500 award and a certificate naming the student as a JPL scholar for exemplary work in each of the first two years of school. During the summer between the students’ junior and senior years, previously awarded JPL scholars will have the opportunity to compete for a $4,000 Caltech/JPL Summer Undergraduate Research Fellowship (SURF).

Jet Propulsion Laboratory Student Independent Research Intern Program (SIRI)
Must be US citizen or permanent resident
Dates of Internships: The SIRI JPL internships are offered each semester during the school year.
Location of Internships: JPL in Pasadena, CA
Website: http://siri.jpl.nasa.gov/index.cfm
Contact: Richard Alvidrez; 818-354-1214
Eligibility: Minimum of 3.0 GPA, over the age of 18 and must be a US Citizen or Permanent Resident. Must be able to work 10-15 hours per week regularly for the period of the program (approximately one semester). This is a one-semester experience only.
Jet Propulsion Laboratory Student Independent Research Intern Program (SIRI) (con’t)

**Description of the Program:** SIRI is considered a training program by JPL. The program gives students real-life work experiences as a component of their academic program, experiences that can help them make career choices and, if they decide to go into some kind of technical work, help them chart future steps in their education. Being selected for any SIRI research opportunity is based primarily on an agreement between the student and the JPL Mentor, with the concurrence of an SMC college Faculty Sponsor. Program participation is limited to one-semester. Follow-up opportunities, in other programs, will be presented during the semester training programs.

**How to Apply:** Identify a Faculty Sponsor from Santa Monica College. Examine the online information. Study the “Announcement of Opportunity” possibilities and discuss these with your Faculty Sponsor and decide those of interest to you. Prepare the JPL SIRI resume found on the website and submit a one-page resume along with a list of Announcements that are of interest, in order of priority. Prior to selection, mentors will review the applications of students interested in their Announcement of Opportunity, and will contact the candidate that seems to fit their requirements and preferences best.


**Stipend:** There is no stipend offered.

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**NIH’s National Human Genome Research Institute (NHGRI) (a program of the National Institutes of Health Summer Internship Program)**

*Must be US citizen or permanent resident*

**Dates of Internships:** An 8-week summer program. Start and end dates are negotiated individually by the applicant and the NIH investigator who has selected him/her as an intern. Students selected for the program usually begin work between mid-May and the end of June. The minimum time commitment is eight weeks, 40 hours a week.

**Location of Internships:** These traineeships are available only in the intramural laboratories of the NIH. Most of the laboratories are located on the main NIH campus in Bethesda, MD. Several Institutes or their laboratories that focus on particular research areas are found at other sites around the country.

**Website:** [www.training.nih.gov/programs/sip](http://www.training.nih.gov/programs/sip)

**Contact:** Email nhgritraining@mail.nih.gov for the NHGRI program.

**Eligibility:** Must be enrolled at least half-time in a U.S. accredited community college and at least 16 years of age when they begin the program. No minimum GPA, but standards are high.

**Application Deadline:** March 1 deadline for NHGRI, though it is preferable to get the application in much earlier as acceptances are made on a rolling basis, and selections are made throughout the open application period. All interested students are strongly encouraged to apply well in advance of the March 1 deadline.

**Description of the Program:** The Summer Internship Program in Biomedical Research provides students at all levels the opportunity to perform biomedical research alongside some of the world’s most accomplished scientists. The program immerses students in a unique environment devoted to better understanding the underlying causes of human genetic disease, leading to the development of novel methods for the detection, prevention and treatment of heritable and genetic disorders. In addition to the training and mentoring received in the laboratory, students attend summer seminars. At the end of the summer students have the opportunity to present their work at the annual NIH Summer Research Program Poster Day.
NIH’s National Human Genome Research Institute (NHGRI) (a program of the National Institutes of Health Summer Internship Program) (con’t)

How to Apply: Apply online at www.training.nih.gov/programs/sip. Applications are handled by the NIH Office of Intramural Training and Education. When applying, be sure to select the National Human Genome Research Institute as your preferred Institute/Center at the bottom of the page. A curriculum vitae or resume are required. You may be required to specify the scientific methodologies or disease/organ systems that are of interest. Once you have completed the application process, please send an email to nhgritraining@mail.nih.gov so that we can follow-up on your application in a timely fashion. When contacting us, be sure to indicate that you have applied to the “Summer Internship Program.”

Stipend & Housing: Depends on prior experience and level of education. A monthly stipend is provided. Please see website. Students are responsible for travel expenses and making their own housing arrangements. Information on local housing options is available upon acceptance.

NIH’s Community College Summer Enrichment Program (CCSEP) (a program of The National Institutes of Health Summer Internship Program)

Must be US citizen or permanent resident

Dates of Internships: A summer program. The exact dates of the internship will be negotiated between each community college intern and his/her principal investigator. However, all interns in the CCSEP program will be required to be on campus during the core program period: the first week of June to a date in early August (see website for exact dates). Summer internships are full-time positions.

Location of Internships: These traineeships are available only in the intramural laboratories of the NIH. Most of the laboratories are located on the main NIH campus in Bethesda, MD.


Contact: Email nhgritraining@mail.nih.gov for the NHGRI program.

Eligibility: Must be enrolled at least half-time in a U.S. accredited community college and at least 16 years of age when they begin the program. A minimum GPA of 3.0; standards are high.

Application Deadline: Applications open mid-November; deadline is late January (see website to verify specific deadline).

Description of the Program: The purpose of this program is to increase the number of community college students who participate in the NIH Summer Internship Program (SIP). In addition to performing full-time research in a laboratory or on a project at NIH, CCSEP interns will meet each week as a group to participate in workshops and courses focused on the development of academic and professional skills in preparation for careers in the health care and in social, behavioral, and biomedical research. Individuals who are selected for the CCSEP will be matched with NIH principal investigators (PIs) who have indicated their interest in hosting a community college student.

How to Apply: Complete the standard SIP (Summer Internship Program) application and indicate in your cover letter that you are applying for CCSEP. Letters of reference will also be needed. Important: In Item 9 on the Summer Internship Program application, Preferred Institute/Center (IC) or Program, please be certain to select CCSEP.

Stipend & Housing: Depends on prior experience and level of education. A monthly stipend is provided. Please see website. Funds for local transportation to and from the NIH will be provided. Students are responsible for making their own housing arrangements. Information on local housing options is available upon acceptance.
National Institute of Standards and Technology (NIST)  
Summer Undergraduate Research Fellowship program (SURF Program)  

*Must be US citizen or permanent resident*  

**Dates of Internships:** 12 week summer undergraduate research programs beginning mid-May through mid August. There are a limited number of 9-week internship slots to accommodate specific academic schedules.  

**Location of Internships:** Gaithersburg, Maryland. The NIST facilities are located just outside Washington, DC.  

**Website:** [www.nist.gov/surfgaithersburg/faqs.cfm](http://www.nist.gov/surfgaithersburg/faqs.cfm)  

**Eligibility:** Undergraduates at a U.S. university or college with a scientific major, have a GPA of 3.0/4.0 or better (recommended), and are considering pursuing a graduate degree (M.S. or Ph.D.). Students with physics, material science, chemistry, applied mathematics, computer science, or engineering majors are always encouraged to apply.  

**Application Deadlines:** Usually mid-February. Please check the website.  

**Description of Programs:** The goal is to provide meaningful research opportunities for about 130 students in the Gaithersburg site-wide program. Research opportunities available: Biochemistry, Biological Sciences, Chemistry, Computer Science, Engineering, Materials Science, Mathematics, Physical Sciences, Physics, and Statistics.  

**NIST Laboratories:** Material Measurement, Physical Measurement, Engineering, Information Technology, Center for Nanoscale Science and Technology, NIST Center for Neutron Research.  

For information **How to Apply:** You can find the application package at [http://www.nist.gov/surfgaithersburg/app.cfm](http://www.nist.gov/surfgaithersburg/app.cfm). Applications for participation in the SURF program are only accepted from the colleges or universities, and not from individual students. Please prepare a single proposal from your institution to the NIST SURF program. The proposal, using the forms provided, will include a portion completed by an institutional representative and a set of materials provided by each student applicant. The student materials will require a description of the student’s prioritized research interests in addition to other information. Please see Vicki Rothman ([Rothman_victoria@smc.edu](mailto:Rothman_victoria@smc.edu)) at the Career Services Center at Santa Monica College to discuss your interest in this program and the application process. You may also request information from Lisa Moss also in the Career Services Center, [moss_lisa@smc.edu](mailto:moss_lisa@smc.edu).  

The student portion of the application: Should indicate in which laboratory he/she is most interested.  

**Stipends and Housing:** Students receive a stipend as well as housing and travel allowances.