

9. SUMMER EMPLOYMENT AND CAREER PLANNING

Stanford's School of Engineering is fortunate to be part of a major university with strengths in the humanities and sciences as well as engineering. Our curriculum has been designed to encourage engineering students to take maximum advantage of Stanford's liberal arts by requiring a practical minimum of technical courses in the engineering major. This broader education does not handicap Stanford's engineering students once in the profession, because they are well trained in fundamentals and have broad skills required for leadership. However, one way to extend one's engineering training is through summer work experience. The School recommends that each student have a summer work experience or technical internship before graduation. Generally this can be arranged through the Career Development Center (CDC) if planning is started in the Fall Quarter. Some overseas work experiences are also available through the Overseas Resource Center of Bechtel International Center or through internships linked with the Overseas Studies Program in Berlin.

CAREER DEVELOPMENT CENTER

Career counselors at the Career Development Center (CDC) assist undergraduate and graduate engineering students in exploring their passions, understanding their unique talents, and developing a successful career search strategy. Step one is to register with the CDC by establishing a Cardinal Careers account at <https://cdc-secure.stanford.edu/login/>. Your account will give you:

- Access to the jobs database for full-time, part-time, internship and on-campus (including federal work study) opportunities
- Opportunity to:

Set up job search agents which will work for you to deliver jobs of interest

Include your resume in one or more resume books

Get activated for our on-campus interview program, Cardinal Recruiting

Sign up to receive CDC CONNECT, our e-newsletter, and other targeted career information

The following page has a listing of other key CDC resources/programs that you will find helpful:

- **Cardinal Recruiting:** Your opportunity to interview with companies on-campus. For more information about the types of companies that participate, how to register, and

the relevant policies and procedures, please check out the CDC Cardinal Recruiting web page at <http://cardinalrecruiting.stanford.edu/recruiting>.

- **Career Fairs:** The CDC hosts a number of career fairs throughout the year. The first fair of the year will be held on Tuesday, October 10, 2006. This is typically the largest career fair of the academic year. For more information, go to http://cardinalcareers.stanford.edu/recruiting/job_fairs.html.
- **Resume Writing, Interviewing, and Job Hunting Strategies:** The CDC supports all aspects of the job search process. We have handouts, web pages, workshops, an extensive career resource library, and career counselors available to assist you with your job search. Information about our resources and services is at <http://cardinalcareers.stanford.edu/services/>.
- **Professional Assistance:** Meet with a Career Counselor to discuss your career-search strategy. Call 725-1789 to schedule an appointment.
- **Calendar of Events:** For a comprehensive schedule of the CDC's programs and activities, go to <http://cardinalcareers.stanford.edu/calendar>.
- **Reference File Service:** Opening a reference file is a convenient way of having your letters of reference forwarded directly to prospective employers and/or graduate admissions offices. You must be a senior within three quarters of graduation, a graduate student, or an alum to establish a file. However, freshmen, sophomores, and juniors may store letters in the Records Department to be used later. Go to <http://cdc-secure.stanford.edu/reference/RRLogin.jsp>.

OVERSEAS RESOURCE CENTER

The Overseas Resource Center (ORC), located on the second floor of the Bechtel International Center, provides information and advising on international opportunities to students and community members. There are numerous opportunities for technical students who wish to pursue overseas study, research, or work opportunities. Visit the ORC or consult our website at <http://www.stanford.edu/dept/icenter/orc> to find out what's available.

- **Study Abroad**
Information and advising on thousands of study opportunities all over the world—direct enrollment and programs sponsored by U.S. institutions, summer and multi-semester/year programs, language schools, and research opportunities. Talk to study abroad returnees by consulting the Global Mentorship Network at the ORC.
- **Work Abroad**
Information on short-term work, internships, and volunteer and teaching abroad opportunities for technical and non-technical students. Resources include: Opportunity listings, *International Internships*, *Directory of American Firms Operating in Foreign Countries*, *Transitions Abroad* magazine, and other helpful

publications. Many resources can be found on the ORC website and listed here are three of the most popular work abroad programs for Stanford students.

- **IAESTE Training Program**
The International Association for the Exchange of Students for Technical Experience (IAESTE) is an exchange program that provides opportunities for on-the-job practical training for students in engineering, architecture, agriculture, mathematics, computer science, and natural and physical sciences in 70 member countries. Participants must have completed their sophomore year. Trainees are paid a maintenance allowance adequate to cover living costs while in training. Fluency in the language is required for some countries. For more information, please visit the IAESTE website at <http://www.iaeste.org>.
- **COUNCIL ON INTERNATIONAL EDUCATIONAL EXCHANGE (CIEE)**
CIEE coordinates programs in Ireland, Germany, France, Australia, New Zealand, Costa Rica and Canada that allow U.S. students to obtain a work visa. If you are interested in arranging an internship or work experience in any of the above countries, please go to <http://www.council exchanges.org/work/index.htm>.
- **BUNAC**
Coordinates work programs in Britain and Australia. Please see the BUNAC website at <http://www.bunac.org>.

Scholarships for Study and Research Abroad.

Rhodes, Marshall, and Fulbright: It is a common misconception that these scholarships are geared towards students in the humanities. Engineering students are strongly encouraged to look into these opportunities.

German Academic Exchange (DAAD) Awards

There are many opportunities for engineering students to study in Germany. Many of these awards do not require any prior knowledge of German.

Other awards include: The National Security Education Program and the American University in Cairo Internship.

Information on several hundred scholarships – from travel grants to single/multi-year, fully-funded study and research opportunities – can be found in the ORC. The ORC also serves as the campus administrator for the following scholarships: Rhodes, Marshall, Churchill, Mitchell, Fulbright, DAAD, Bundeskanzler, IIE Asia/Pacific Travel Grant, the Adventure Travel Network-Stanford Worldwide Travel Grant, The National Security Education Program and the American University in Cairo Internship.

For details on these scholarships, see the International Center's web site at <http://www.stanford.edu/dept/icenter/orc/scholarships/scholarships.html>.

Travel Services

ORC travel services include passport photos (color only) and International Student Identity cards. General travel information, visa/passport requirements, and U.S. State Department Travel Advisories and Reports are also available.

For information on Stanford Overseas Studies academic programs, see the Overseas Studies section in “Special Programs and Organizations” earlier in this handbook.

FUNDAMENTALS OF ENGINEERING EXAM

Many engineers, especially those in Civil, Environmental, and Mechanical Engineering, will find it an important step in their careers to become Registered Professional Engineers in the state in which they intend to practice. The first step in becoming registered is to take and pass the Fundamentals of Engineering (FE) examination (formally the Engineering-In-Training, or EIT, exam). All engineering students should consider taking the FE exam, whether or not they currently envision becoming licensed engineers. The exam is broadly based, takes eight hours, and covers basic topics such as calculus, physics, chemistry, statics, thermodynamics, circuits, and so forth. It is much easier to pass the exam while these basic subjects are still relatively fresh, and hence it is highly recommended that the exam be taken toward the end of the senior year or shortly thereafter. For more information, visit <http://www.dca.ca.gov/pels>.

Exam	Date	Postmark Deadline
FE/EIT:	October 28, 2006	August 25, 2006
	April 21, 2007	February 16, 2007
	October 27, 2007	August 24, 2007
Special Civil:	October 28, 2006	July 21, 2006
	April 21, 2007	January 5, 2007
	October 27, 2007	July 20, 2007
ChE/Civil/EE/ME:	October 27, 2006	July 21, 2006
	April 20, 2007	January 5, 2007
	October 26, 2007	July 20, 2007