



INTERNSHIPS & SERVICE-LEARNING

AFRICA ASIA EUROPE LATIN AMERICA PACIFIC

## ENGINEERING INTERNSHIPS

It is clearly recognized that engineers need international experiences to function well in multinational businesses and government enterprises. An internship abroad is a great way for engineering students to gain this experience. Matched with high-profile companies, universities, and organizations, engineering interns have the opportunity to work alongside scientists from around the globe. Interning abroad promotes innovation, technical understanding, and interpersonal and cross-cultural communication, allowing participants to gain the skills necessary to translate ideas and plans into reality for cultures that may not look, sound, or dress the way we do.

Mechanical engineering placements are more challenging to secure unless the applicant is interested in research opportunities.

### Reasons to Intern Abroad

- Apply engineering concepts in a hands-on and interactive setting
- Learn innovative engineering systems practiced in different countries
- Experience a different culture and work environment
- Gain an understanding of globalization and sustainability and its role in the field
- Network with professionals within the industry in an international context

### Ideal Candidates

- Have completed two years of undergraduate engineering coursework in a relevant area
- Are familiar with relevant software (Matlab, C++, Java, AutoCAD, Solid Works, Pro/E, etc.)
- Are flexible with host country
- Have an interest in an internship of 8+ weeks

### Typical Tasks

- Running tests in the laboratory
- Technical research
- Preparing designs
- App Development
- Analyzing calculations and data sets
- Supporting engineering teams
- Assembling parts and prototypes
- Completing business development tasks for engineering companies

### Recommended Sites

Chile provides the most opportunities for engineering students. Placements are available in Biomedical, Civil, Chemical, Petroleum, Electrical, Renewable Energy Structural, and Software Engineering. Valencia, Spain also offers great some great opportunities for engineering students. New Zealand can be a great option for Civil or Mechanical Engineers. Shanghai, Seoul, Tokyo, Australia, London, and Ireland are not recommended sites for engineering students.

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## **SAMPLE PLACEMENTS**

### **Empresas COPEC, Santiago, Chile**

#### *Petroleum Engineering Intern*

Empresas Copec is a Chilean energy and forestry company with a chain of gas stations throughout the country. Under the supervision of the Engineering Management team, interns will collaborate with professional engineers and designers to create, build, and implement innovative fuel products.

### **REUTTER, Santiago, Chile**

#### *Chemical Engineering Intern*

REUTTER has a branch within the company to develop and import medications for rare diseases in Chile. Interns will work under the supervision of the director of the medical branch to research and identify new niches, analyze findings, and present data to the company's executives. Interns will research suppliers within the international market and collaborate with engineers to identify critical medical needs.

### **Universidad Del Desarrollo, Las Condes, Chile**

#### *Environmental Engineering Research Intern*

Universidad del Desarrollo is known not only for its academic excellence but also for its entrepreneurial hallmark. This feature has earned it a place of privilege in higher education in Chile and Latin America since it was founded 20 years ago. Interns will work with professors in the School of Engineering to conduct research on the interrelation between engineering, society, and sustainability. A variety of research topics are available.

### **Airey Consultants LTD, Auckland, New Zealand**

#### *Civil Engineering Intern*

Airey Consultants Ltd, is an established firm of consulting engineers providing civil, structural and fire design services to developers, architects, construction companies and property owners throughout New Zealand. Airey Consultants has an outstanding reputation in the engineering community and aims to build a strong rapport with clients through efficiency, clear communication and passionate designs. Intern projects are very hands-on and dependent on the intern's particular areas of interest.

### **WelTec- Centre for Smart Product, Wellington, New Zealand**

#### *Electronic & Mechanical Engineering Intern*

Wellington Institute of Technology (WelTec) is a leading research institution, internationally recognized for its advances within the Engineering and Technology fields. Interns will work with on-site engineering professionals to help with various research and development projects. Interns are expected to undertake mechanical design activities, assist in the building of models and prototypes, help set up and carry out laboratory tests, and prepare for the running of field trials of devices and processing systems.

### **Air Nostrum, Valencia, Spain**

#### *Aerospace Engineering Intern*

Air Nostrum leads regional aviation in Spain and is one of the biggest regional airlines in Europe. The Engineering department of the company is responsible for ensuring the maintenance of stability of the *Bombardier* manufactured aircrafts. Interns will work alongside professional engineers to learn current engineering systems and aid in day-to-day operations.

### **Grupo T.I.C.E Ingenieros, Valencia, Spain**

#### *Engineering Intern*

Grupo T.I.C.E Ingenieros consists of different engineering disciplines to offer a highly qualified, multi-disciplinary team that is able to work in many different sectors—construction, automotive industry, manufacturing, railroad, renewable energy, among others. The intern will be involved in developing a new management system. The intern will gain experience in programming, data structures, computer organizations, and assembly language, etc. The intern will be in charge of this project for the company. The intern will also be able to see projects across the company in other engineering fields.