



ECOLE DES MINES DE NANTES

Company discovery week

Production internship

Projects in companies

**Internship abroad**

Graduation project



# Internship abroad

In their penultimate year of engineering studies at EMNantes, students carry out a 3-month internship in a company abroad. Immersed in a new cultural context, students must demonstrate their reactivity and adaptability as well as a capacity to provide an appropriate solution to a task set by their host company.

**Duration:**

**At least 3 months**

between early May and late August in any field in a manufacturing or service industry – in a non-French speaking country for French students and in France for international students.

**Remuneration:**

In general, host companies recognize the value of the work performed by the students and provide financial support to cover living expenses.



## Goals for the company

- Obtain a valuable contribution to the activity of their company from the student. The project given to the student corresponds to a real need, and may include technological, scientific, organizational and economic dimensions.
- Initiate, consolidate, develop international relations.

## Goals for students

- Gain valuable international experience by conducting a project in a different cultural context.
- Address the multiple aspects of a scientific and technological project.
- Present results at the end of the project.

## Goals for the school

- Develop the student's capacity for integration, adaptability and reactivity.
- Prepare engineering students to work in another cultural context.



## Building links for the future

**Patrick O'NEILL**, Manager Environmental and Earth Sciences Company (Melbourne, Australia)

*«Our firm specializes in the analysis of polluted soils. Our company's services are in high demand by private individuals as well as by the construction industry. The environmental laws are particularly strict in Australia. They ensure that land intended for building is not polluted.*

*We are called in when the land has been used in the past by chemical or oil industries and is to be converted into housing estates. We take samples of water and soil, we analyze and write the reports for our customers. During the three months she spent in our office in Melbourne, Alice completed all the kinds of tasks normally assigned to our consultants: sampling, analysis and reporting. She showed she had all the skills necessary to complete the task she was given. Alice is the second student from the Ecole des Mines de Nantes that we have welcomed. Environmental and Earth Sciences Co is now based mainly in Australia and New Zealand, but we already have an office in the UK and we intend to develop further in Europe. Hosting students from Ecole des Mines de Nantes contributes to our international development and is an excellent way to discover other cultures.»*

## Typical internship topics

### ■ Research and development

- Design, sensor design, signal processing for a mobile robot.
- Modeling the Monte Carlo method for radiation applications and dismantling of nuclear facilities.
- Study of safety management and transport of nuclear waste.
- Study of alternative energy solutions for the heating system of an Olympic venue.
- Decision support : modeling of a physical problem, identification of key variables, constraints and optimization.
- Web development: creating a website for a company, including access management and personalized document management.

### ■ Project management

- Managing an intranet site project: study of the current situation, needs analysis, organization of the features and content of the intranet site.
- Technical and financial feasibility study for cogeneration power plants.

### ■ Quality assurance, Environment and Safety

- Participation in the establishment of a quality procedure for a logistics platform.
- Internal audit, writing quality procedures and implementation of corrective actions.
- Carbon footprint energy audits with a view to reducing CO<sub>2</sub> emissions.

### ■ Systems optimization

- Implementation of a kanban production management system.
- Storage sizing ; stock reduction.
- Warehouse re-organization following an increase in stock volume.
- Inspection of reception quality tests: analysis of procedures for dealing with supplies.

### ■ International development of a company

- Search for suppliers or customers in a foreign market.
- Study of local regulations and impacts.

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Major international destinations for our students

