

MULTIDISCIPLINARY

International Bachelor Nuclear Engineering

SUMMARY

The international Bachelor in Nuclear Engineering is a one-year nuclear specialization programme designed for two types of students: those who have finished a three-year bachelor degree and want to acquire a specialization in nuclear engineering or those pursuing a four-year degree and want to do their last year in a highly specialized environment dedicated to nuclear engineering. Upon completion of the programme, students will be awarded a diploma from the Grenoble INP - Phelma engineering school.

All courses are taught in English. The programme is based on a series of interdisciplinary and nuclear specific courses such as:

- nuclear sciences (interaction of radiation with matter, nuclear reactors, and nuclear instrumentation, etc.);
- engineering sciences (mathematics, thermodynamics, heat transfer, etc.).

The goal is to prepare students to perform competently in occupational areas such as reactor operations, health physics, quality assurance, instrumentation and control technology, as well as other related areas in the nuclear technology field.

SKILLS

Students will be able to perform competently in occupational areas such as reactor operations, health physics, quality assurance, instrumentation and control technology, as well as in related areas in the nuclear technology field.

CAREERS

Obtaining a Bachelor of Nuclear Engineering may be a first step towards a promising future career. The students will qualify (often after completing a Master of Science in Nuclear Engineering or a PhD degree) for an interesting, multidisciplinary profession with excellent job opportunities in industry, research, and regulatory bodies. Subject areas, like the safe and reliable operation of existing and new reactors, the development of novel reactor types, the sustainable supply of nuclear fuel, the closure of the fuel cycle, the disposal of radioactive waste without harm to the environment, and many others, represent scientific and technical challenges for motivated young engineers and researchers.

FURTHER LEARNING OPPORTUNITIES

After earning this bachelor degree, it is possible to undertake a master degree everywhere in the world. At Grenoble INP-Phelma, applying to **MaNuEn** (master in Materials Science for Nuclear Energy) is possible.

INSTITUTION(S)

Grenoble INP - Phelma

DURATION OF STUDY 1-year programme

LANGUAGE 

TRAINING LOCATION Grenoble



MODE OF STUDY

- Continuing education
- Full time programme

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PREREQUISITES

This programme is designed for two types of students:

- Those who have finished a three-year bachelor degree and want to acquire a specialization in nuclear engineering;
- or those pursuing a four-year degree and want to do their last year in a highly specialized environment dedicated to nuclear engineering.