

INSTN



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For over 60 years, **INSTN** has been supporting nuclear development with academic and professional training programs in the field of nuclear technologies and their industrial and radiopharmaceutical applications. Through our expertise, we continue to demonstrate INSTN's role as the French education and training institute for nuclear applications. Administered by CEA (the French Atomic Energy and Alternative Energies Commission, see p. 54), INSTN supports the scientific and industrial development of the French nuclear sector by transferring knowledge and competences. At INSTN, we provide highly specialized education and training courses in nuclear science and technology applied to energy and health, at all levels of qualification - from operator, to engineer or researcher. We have developed a complete and coherent offer ranging from initial to continuing education and life-long training covering all applications of nuclear physics, from energy production to the use of radioisotopes in biology and medicine. These courses are aimed at both French and international students, advanced technicians, engineers, scientists, etc. At INSTN, we impart cutting-edge know-how and skills thanks to our privileged access to the scientific and technological potential of CEA and our network of partners. Our programs are taught by researchers and experts from industrial companies and safety organizations, university professors, and medical professionals.

NUCLEAR TRAINING AT INSTN

We award over 41 academic degrees, including Bachelor's and Master's degrees, as well as specialized technician degrees (undergraduate vocational degrees) generally taught in partnership with universities and Graduate Schools of Engineering. National and international academic courses cover nuclear engineering, material sciences, radiation protection, waste management, clean-up and decommissioning, health technologies, alternative energies, energy economics, technology & innovation, etc. Our courses are offered as regular classroom training or as apprenticeship programs for on-the-job training. The engineering course **génie atomique** (Nuclear Engineering, Advanced Graduate Engineering Degree) awards the title of Engineer specialized in Nuclear Engineering, which is accredited by the French Commission for Engineering Degrees and Certifications (CTI) and listed in the French Government's National Directory of Professional Qualifications (RNCP and EUR-ACE).

INTERNATIONAL COOPERATION

For several years now, we have been further developing INSTN's international program. In 2016, INSTN was designated as an IAEA 'Collaborating Centre', the first in Europe. This accreditation has further strengthened our international development in 2016 and 2017, with agreements signed with European, African, and Middle Eastern partners. In support of CEA's International Relations Division and key players of the French nuclear industry, INSTN develops tailor-made solutions which meet the challenges of developing competences for the nuclear energy and nuclear applications in human health sectors. INSTN also participates in various European H2020 projects aiming at building nuclear training schemes in engineering (ENEN+), safety culture (NUSHARE), and radiation protection (ENETRAP III and PETRUS III). We are a founding member of the European Nuclear Education Network (ENEN) that we chaired from 2003-2013.

INSTN AT THE SERVICE OF E&T IN NEWCOMER AND EXPANDING COUNTRIES

With its industrial and research partners, INSTN supports newcomer and expanding countries at every stage of the implementation of their nuclear power programs by offering its Human Capacity Building services. For example, we:

- help students acquire a solid background in nuclear science, at Master's or PhD levels,
- provide professionals with vocational training,
- train trainers,
- provide assistance for the local implementation of training platforms, from skill and attitude development to the set-up of facilities,
- tutor decision-makers to address energy-related issues.

In previous years, we have designed many courses for a number of countries including the United Arab Emirates, China, Finland, Italy, Japan, Morocco, Poland, Saudi Arabia, Sweden, Tunisia, Vietnam, etc.



Key figures

1,300 trainers and experts (75% from CEA)
1,100 students in academic training each year
7,650 trainees in professional training each year
1,600 doctoral students, employed at CEA