



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

ENGINEERING



NUCLEAR POWER ENGINEERING



PROGRAM NAME: Nuclear Power Engineering

AWARD: Master of /Applied/ Science in Nuclear Power Engineering and Thermal Physics

MODE OF STUDY: full-time

COURSE DURATION: 2 years: 3 semesters at SPbPU + 1 semesters at a partner university (optional).

PROGRAM OUTLINE: The program is aimed at training professionals in nuclear power engineering. After graduating from this program, you will be able to maintain and operate nuclear power plants and its main equipment such as nuclear reactors, steam generators and steam turbines. In-depth study of theoretical basis in nuclear reactor physics, thermal hydraulics and nuclear power plant safety will be also performed.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Humanities	10
Basic Courses	23
Reactor Physics and Thermal Hydraulics Courses	7
Nuclear Power Plant Equipment Courses	8
Modeling of Processes and Research of NPP	8
Elective Courses	2
MOOC	5
Internship	36
Master's Thesis (including State Exam)	21
Total	120



ENTRY REQUIREMENTS: Bachelor's, Specialist's or Master's degree in a relevant area is required / English language proficiency - B+ (CEFR B2) / Exam Test in a relevant field of studies / Interview in English with a program coordinator (Skype option is available).

PARTNERS:

- Finland – Lappeenranta University of Technology
- Russia – Power Machines
- Russia – State Atomic Energy Corporation “Rosatom”

CAREER OPPORTUNITIES: Our graduates become nuclear power plant engineers, and typically work for nuclear power plants and manufacturing establishments. They may start with entry-level positions, which often deal with maintenance of plant equipment, and further they can be promoted to senior managerial positions, or to continue their studies in doctoral programs.

