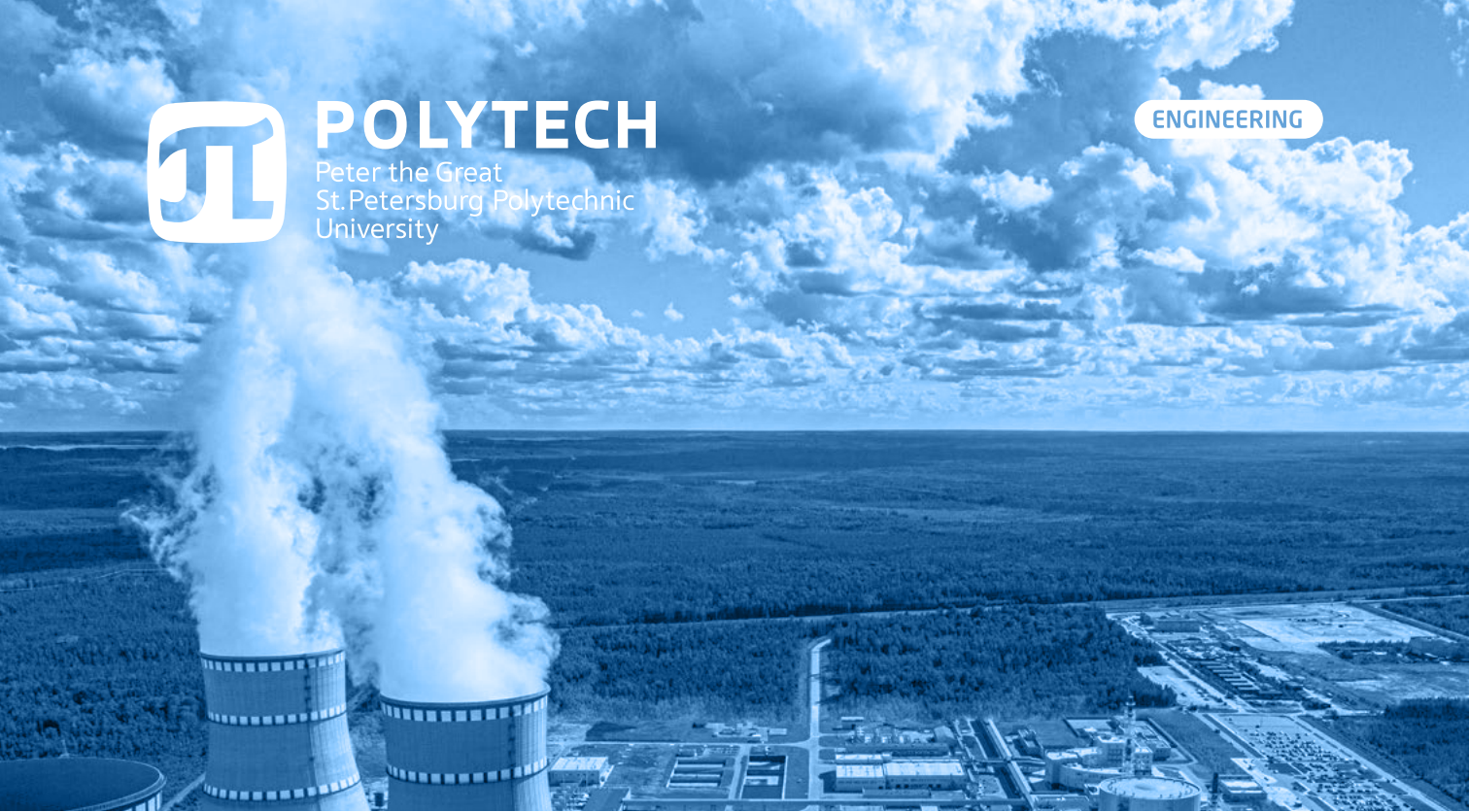




POLYTECH

Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING



EMERGENCY PREPAREDNESS AND RESPONSE



PROGRAM NAME: Emergency Preparedness and Response (for nuclear and radiological emergencies)

AWARD: Master of Science

MODE OF STUDY: Full-time

COURSE DURATION: 2 years (4 semesters)

PROGRAM OUTLINE: The world's first nuclear and radiological emergency preparedness and response program. The program was developed to train managers and specialists of structural units of nuclear power plants who plan, ensure preparedness and implement measures to protect personnel and the public in emergency at a nuclear power plant. According to IAEA standards emergency Preparedness and Response must be provided not only on NPP, but also at various types of scientific reactors or activities which involve hazardous radioactive materials. All of these objects are covered by EPR activities.

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)

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Safety monitoring and expertise	5
Technosphere safety legislation	4
Risk management, systems analysis and modeling	5
Safety and security training	5
Project management in technosphere safety	4
Statistics	4
Foreign language in professional communication	3
Digital resources in scientific research	3
History and methodology of science	3
EPRC0. Concepts of radiation and common practices	6
EPRC1. Introduction to EPR. General requirements for EPR	6
EPRC2: Functional requirements for EPR	6
EPRC3. Infrastructure for EPR	6
Elective courses (5 courses)	20
Practical exercises	6
Internship	6
Undergraduate practice	9
Research work	13
Thesis	6
Total	120

PARTNERS:

- The International Atomic Energy Agency (IAEA)
- Rosatom Technical Academy (Rosatom Tech)
- Emergency Technical Center of Rosatom

CAREER OPPORTUNITIES:

- Nuclear power plants
- Research reactors
- Radioactive Waste Management
- Transport of nuclear or radioactive material
- Industrial irradiation facilities

POSSIBLE JOB POSITIONS:

- Emergency Preparedness and Response manager
- Head of Civil Defense and Emergency Department
- Civil defense and emergency department manager
- Analyst engineer of the emergency technical center

