



**POLYTECH**

Peter the Great  
St. Petersburg Polytechnic  
University

ENGINEERING

DOUBLE DEGREE

## POWER PLANT ENGINEERING

**PROGRAM NAME:** Power Plant Engineering

**AWARD:** SPbPU diploma – MSc in Heat Power Engineering.  
Double Degree option: LUT diploma – MSc in Energy Technology

**MODE OF STUDY:** full-time

**COURSE DURATION:** 2 years: 3 semesters at SPbPU + 1 semester at a partner university (optional).  
Double Degree option is performed in cooperation with Lappeenranta University of Technology, Finland.

**PROGRAM OUTLINE:** The program comprises a wide range of power engineering subjects aimed at theoretical and practical training. Highly qualified graduates will be able to design, construct, operate, manage and maintain power plants in the most efficient way.

**CURRICULUM (GENERAL MODULES):**

MODULES	ECTS
General Scientific: History and Methodology of Science; Language (English, Russian); - Scientific Discourse	10
Project activity: Scientific and Research Work; Internship Course Projects; Master thesis	62
Economics and Management courses: Energy Economics; Logistics in Energy; Innovation Management; Investment Management	11
Engineering Courses: Renewable Energy; Thermal Power Plants; Operating Modes of Thermal Power Plants; Modeling of Vaporization Processes; Numerical Methods in Heat and Mass Transfer; and etc.	37
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 (DD optional)
- Germany – Leibniz Universität Hannover
- Italy – Milano Politechnic University
- Italy – University of Florence
- Russia – TGC-1; Power Machines; State Atomic Energy Corporation “Rosatom”

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

