



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

ENGINEERING

TRILATERAL DEGREE



ENERGY TECHNOLOGY



PROGRAM NAME: Energy Technology

AWARD: SPbPU – MSc in Technology (Power Plant Engineering),

Triple Degree option: LUT – MSc in Technology (Energy Technology), LUH – MSc in Technology (Energietechnik)

MODE OF STUDY: full-time

COURSE DURATION: 2 years

Double degree program: – 1st and 2nd semester at SPbPU + 3rd and 4th semester at LUT

Trilateral program – 1st semester at LUT + 2nd semesters at SPbPU + 3rd semester at LUH + 4th semester at home university

PROGRAM OUTLINE: The program is designed to train specialists in emerging areas of energy research with the potential for a high technological or social impact, providing knowledge about modern energy systems, innovation technologies, state-of-the-art energy equipment and its operation. Highly qualified graduates will be able to solve complex engineering and management challenges in a global energy sector.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
General Scientific courses: Ethical and Language Skills	10
Project activity: Scientific and Research Work; Internship; Course Projects; Master thesis	68
Supporting Courses: Energy Economics; Modern Energy Problems; Modern Energy Technologies; Computer-Aided Technologies	13
Major Courses in Energy Technology: Renewable Energy; Turbines of TPP and NPP Working Processes of Turbines; Reliability and Diagnostic of Power Machines; and etc.	29
Total	120

ENTRY REQUIREMENTS: Bachelor's, Specialist's or Master's degree or equivalent in Energy Technology or Mechanical Engineering or equivalent is required / English language proficiency -TOEFL – 80 iBT or 550 PBT or IELTS – 6.0 or CAE either CPE grade A, B, or C / minimum of final mark of the Bachelor degree in Finland - 3.0; in Germany - 2.7 in Russia - 4.6 / Exam Test in a relevant field of studies. Interview in English with the program coordinator (Skype option is available)

PARTNERS:

- Finland – Lappeenranta University of Technology
- Germany – Leibniz Universität Hannover
- Russia – TGC-1; Power Machines; State Atomic Energy Corporation “Rosatom”

CAREER OPPORTUNITIES: The program prepares students to go on to careers as professionals and experts in the rapidly developing, multidisciplinary area of energy and the environment, or to continue their studies in doctoral programs.

