



POLYTECH

Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

INNOVATIVE TECHNOLOGIES IN METALLURGY
AND MATERIAL SCIENCE

PROGRAM NAME: Innovative Technologies in Metallurgy and Material Science

AWARD: Master of Science

MODE OF STUDY: full-time

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

PROGRAM OUTLINE: The program deals with such challenging subjects as material science and engineering, research and simulation of material structure formation and properties, laser technologies, additive advanced technologies, etc. The course is supported by up-to-date analysis methods using state-of-the-art equipment.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Numerical Simulation of Metallurgical Processes	17.5
Innovative Technologies and Materials	18.5
Foreign Language and Pedagogical Practice	12
Technical Audit and Metallurgical Expertise	12
Thermodynamics and Kinetics	7.5
Master's Thesis, Scientific Research Work	52.5
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:

- Germany – Technical University of Berlin
- Germany – Leibnitz Universität Hannover
- Germany – Brandenburg Technical University
- Finland – Lappeenranta University of Technology

CAREER OPPORTUNITIES: Our highly-trained graduates are prepared for further career in the leading industrial companies. Graduates can expect positions of responsibility with interdisciplinary collaboration and project management tasks all over the world. There is also an excellent possibility of getting a subsequent doctoral degree.

