POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

NEW MATERIALS AND ADDITIVE TECHNOLOGIES

PROGRAM NAME: New Materials and Additive Technologies

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 outstanding feature of the present program is the modern materials and advanced manufacturing technologies overview. The focus of the program is to accumulate practical skills in material science and engineering, to enrich previous skills with the help of unique equipment and modern analysis methods. The best lecturers of SPbPU will be involved in educational process. Our students will have opportunity to have practices in different universities and industrial laboratories.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Material Science	23
Additive Manufacturing	20
Professional Courses: Solid State Joining Techniques, Physical and Numerical Simulation of Metals and Alloys Microstructure and Properties Formation, Ecology and Resource Saving, Automatization and Robotics, Foreign Business Language	22
Master's Thesis and Scientific Research Work	55
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:

- China - Zhejiang University, Shanghai Jiao Tong University
- Italy - Politecnico di Torino, Politechnico di Milano
- Finland - Aalto University
- Austria - Graz University of Technology

CAREER OPPORTUNITIES: The Program's major objective is to train multiskilled professionals, who have multidisciplinary knowledge and are ready to be involved in both research at a university level, and engineering at companies that work in a field of technology. The joint Program's philosophy assumes learning technology in Material Science and Technology in terms of specifics at manufacturing enterprises in Russia and abroad.