DEGREE PROGRAMS IN ENGLISH

Peter the Great St.Peterburg Polytechnic University
Polytechnicheskaya 29, Saint Petersburg, 195251, Russia
Tel.: +7 (812) 534 25 31, Fax: +7 (812) 534 13 65
e-mail: intprogram@spbstu.ru
www.english.spbstu.ru

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

Peter the Great St.Petersburg Polytechnic University has a long-standing and successful history over 100 years where a great deal of important discoveries and inventions have been made. We've been welcoming international students and professors so far to achieve global exchange of brilliant people and smart ideas.

Discover English-taught International Degree Programs in a Russian University!

31000+
TOTAL NUMBER OF STUDENTS

290+
INTERNATIONAL PARTNER UNIVERSITIES

6000+
INTERNATIONAL STUDENTS

1900+
LECTURERS, PROFESSORS & INTERNATIONAL FACULTY

115 OVERSEAS COUNTRIES INVOLVED

160 RESEARCH LABS AND R&E CENTERS

Tuition fees may vary depending on the program chosen
You may learn about updated fees at our web-site english.spbstu.ru

KEY ADVANTAGES OF SPBPU INTERNATIONAL DEGREE PROGRAMS IN ENGLISH:

- Wide variety of programs (in English)
- Studies in English language
- Students mobility (in partner universities)
- Double Degree options
- Studies in international groups
- Professional & language practice
- Professors with high expertise
- Scientific & research activities
- Comfortable dormitories and great students' life

International MSc Programs in Engineering and Natural Sciences

Polytechnic University offers Engineering Master's Degree programs in English in the following fields of study:

- Energy Technology
- Electrical Power Engineering
- Nuclear Energy
- Intelligent Systems
- Mechanics and Mathematical Modeling
- Microelectronics of Telecommunication Systems
- Civil Engineering
- Nanoelectronics
- Photonics
- Material Science and Metallurgy
- etc.

International BSc and MSc Programs in Management, Economics and Humanities

Peter the Great St.Petersburg Polytechnic University provides up-to-date English-taught Bachelor's and Master's Degree programs in Business & Economics:

- Technologies of Business Engineering
- Technology Leadership and Entrepreneurship
- International Business Development
- International Management
- Innovative Entrepreneurship
- Region Studies
- etc.

Be professional with us!

Discover English-taught International Degree Programs in a Russian University!

31000+
TOTAL NUMBER OF STUDENTS

290+
INTERNATIONAL PARTNER UNIVERSITIES

6000+
INTERNATIONAL STUDENTS

1900+
LECTURERS, PROFESSORS & INTERNATIONAL FACULTY

115 OVERSEAS COUNTRIES INVOLVED

160 RESEARCH LABS AND R&E CENTERS

Tuition fees may vary depending on the program chosen
You may learn about updated fees at our web-site english.spbstu.ru

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

CIVIL ENGINEERING

PROGRAM NAME: Civil Engineering

AWARD: Master of Science in Civil Engineering

MODE OF STUDY: full-time

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

PROGRAM OUTLINE: The program offers a range of advanced level modules that address key issues faced by civil engineers nowadays. This course is designed to prepare you for a career in the industry by providing you with practical experience of research and management as well as to get pertinent knowledge of structural, geotechnical and hydraulic engineering and design. Keeping pace with the trend of having big demand for highly-qualified civil engineers on international market we worked out an up-to-date and helpful educational Master's degree program.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Construction Technologies, Structures and Materials	19.5
Engineering System and Energy Efficient Buildings	16
Economics and Construction Management	13
BIM – Technologies and Mathematical Modeling	7.5
Scientific and Research Work	40
Master's Thesis	24
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 - Helsinki Metropolia University of Applied Sciences
- Germany - Leibniz Universität Hannover
- Austria - Graz University of Technology

CAREER OPPORTUNITIES: With the knowledge and practical skills acquired by completion of this course, many graduates may continue to study for a PhD, become research assistants or work for international companies or set up their own business.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

ENERGY EFFICIENT AND SUSTAINABLE BUILDING

PROGRAM NAME: Energy Efficient and Sustainable Building

AWARD: Master of Science in Engineering

MODE OF STUDY: full-time

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

PROGRAM OUTLINE: The program is developed for those who are concerned with energy efficiency and sustainability in civil construction with the focus on developing one's expertise in building engineering, building design and project management. The program is designed to combine theoretical knowledge and practical skills to challenge emerging industry issues under economic and sustainability policy of a local area.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Designing and Construction of Energy Efficient and Sustainable buildings	33
Heat and Mass Transfer Theory and Fluid Dynamics	8.5
Mathematical Modeling and IT in Construction	6
Economics and Construction Management	8.5
Scientific and Research Work	40
Master's Thesis	24
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 - Helsinki Metropolia University of Applied Sciences
- Finland – Lappeenranta University of Technology
- Latvia - Riga Technical University

CAREER OPPORTUNITIES: Upon graduation our students will be able to work at a high level as a manager, designer or engineer either in the public sector with national, state and local government or commercial companies in areas including engineering consultancy, architectural design, building equipment manufacturing, property and infrastructure development, facilities management and etc.

POLYTECH
Peter the Great
St. Petersburg Polytechnic
University

ENGINEERING

DOUBLE DEGREE

POWER PLANT ENGINEERING

PROGRAM NAME: Power Plant Engineering

AWARD: Master of Science in 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. We train highly qualified professionals able to design, operate and maintain power plants in the most efficient way. Our graduates develop practical skills in design and operation such as construction, commissioning, start-up and management.

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; Supply Chain Management; Innovation Management; Human Resources Management	11
Engineering Courses: Renewable Energy; 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 of Milan
- 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 to continue their studies in doctoral programs.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

DOUBLE DEGREE

ELECTRICAL POWER ENGINEERING

PROGRAM NAME: Electrical Power Engineering

AWARD: SPbPU diploma — MSc in Electrical Power Engineering;
Double Degree option: BTU diploma — MSc in Electrical Power engineering

MODE OF STUDY: full-time

COURSE DURATION: Course duration: 2 years: 3 semesters at SPbPU +1 semester at partner university (optional).
Double Degree in cooperation with Brandenburg Technical University (2nd and 3rd semester).

PROGRAM OUTLINE: The program is designed to provide comprehensive knowledge and practical skills to become a true specialist with high-level of leadership, analytical, multi engineering and management skills in the field of electro-energetic nets and equipment. It is a practice-oriented course with the focus on B2B segment and research activities. The course is aimed at providing business professionals and managers with the ability to apply their knowledge, skills and creativity to electro-energy technology to meet global demands.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
General Scientific: History and Methodology of Science; Language (English, Russian); Scientific Discourse	10
Module of professional orientation: Electrical Power Systems; High Voltage Technologies; Electromagnetic Compatibility; Power Electronics; and etc.	46
Project activity: Scientific and Research Work; Internship; Course projects; Master thesis	54
Optional courses: Financial Management; Engineering and Computer Graphics; Supply Chain Management; Production Management	10
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- Brandenburg Technical University (DD optional)
- Germany — Leibniz Institute for Plasma Science and Technology
- Germany – RWTH Aachen University
- Slovakia — Technical University Kosice
- Finland – Lappeenranta University of Technology (DD optional)

CAREER OPPORTUNITIES: With the knowledge acquired our graduates will be in high demand for the positions of electrical engineers looking after the design of a particular range of electrical equipment or developing a new facility design. Going for further education and getting PhD is another alternative for self-development.

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:
Course duration: 2 years - 1st semester at LUT + 2nd semester at SPbPU + 3rd semester at LUH + 4th semester at home university.

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

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

PARTNERS:

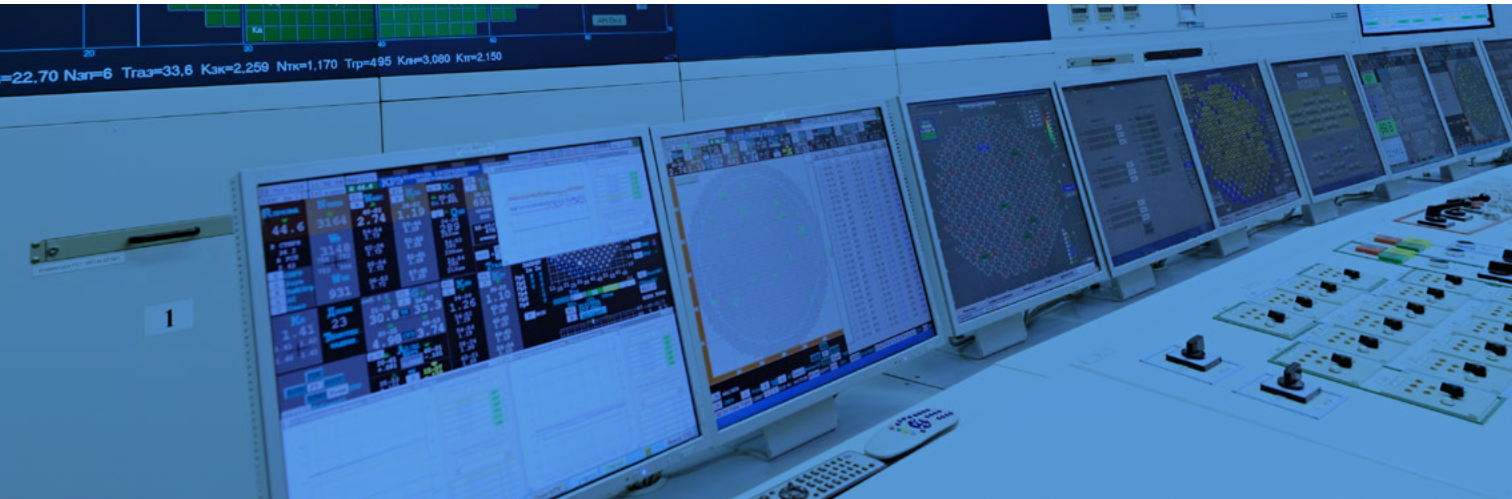
- Finland — Lappeenranta University of Technology
- Germany — Leibniz Universität Hannover
- Russia — TGC-1; Power Machines; State Atomic Energy Corporation "Rosatom"

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.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

NUCLEAR POWER ENGINEERING



PROGRAM NAME: Nuclear Power Engineering

AWARD: Master of Science in Technology

MODE OF STUDY: full-time

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

PROGRAM OUTLINE: The program is aimed at training professionals in nuclear power engineering. After graduating from this program, you will be able to design, maintain and operate nuclear power plants and its main equipment such as nuclear reactors, steam generators and steam turbines. In-depth study of theoretical basis in nuclear reactor physics, thermal hydraulics and nuclear power plant safety will be also performed.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Humanities	10
Basic Courses	13
Reactor Physics and Thermal Hydraulics Courses	10
Nuclear Power Plant Equipment Courses	10
Nuclear Power Plant Operation Cources	10
Economics and Management Courses	4
Elective Courses	5
Master's Thesis, Scientific and Research Work	58
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:

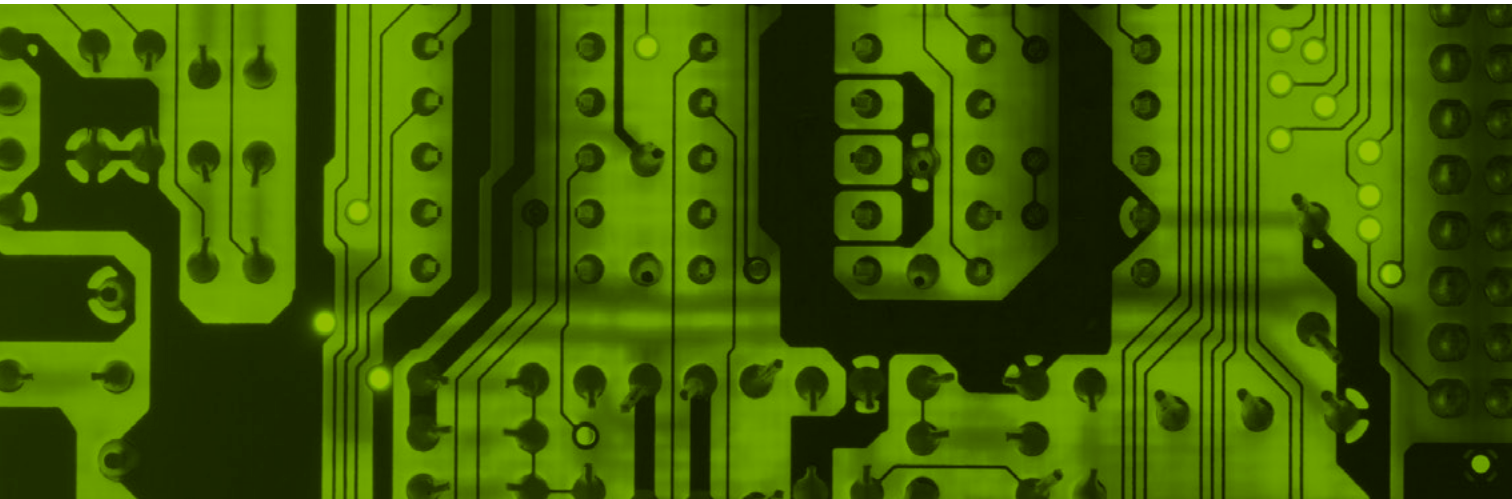
- Finland — Lappeenranta University of Technology
- Russia — Power Machines
- Russia — State Atomic Energy Corporation "Rosatom"

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

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

NATURAL SCIENCES

MICROELECTRONICS OF TELECOMMUNICATION SYSTEMS



PROGRAM NAME: Microelectronics of Telecommunication Systems

AWARD A DEGREE: 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: Our students are trained to do research and development in the field of integrated circuits design as well as in micro- and nanoelectronics for up-to-date wireless telecommunication systems. The program covers RF, analog and digital circuits design for receivers and transmitters, and digital signal processing based on FPGA and microcontrollers.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Theory of Telecommunication Systems and Networks	5
Design of Microelectronic Digital, Analog and RF Circuits	7
Simulation and Optimization Methods in Integrated Circuits Design	7
Physics of Integrated Circuit Technology	6
Functional and Organic Microelectronics	5
Microelectronics Filter Design	4
Design of Integrated Transceivers	4
Digital Signal Processing	6
Elective Courses	17
Master's Thesis and Research Work	59
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 – Hamburg University of Technology
- Germany – Leibniz University of Hannover
- Germany – Fraunhofer Institute for Integrated Circuits
- France – Telecom ParisTech
- Check Republic – Czech Technical University in Prague

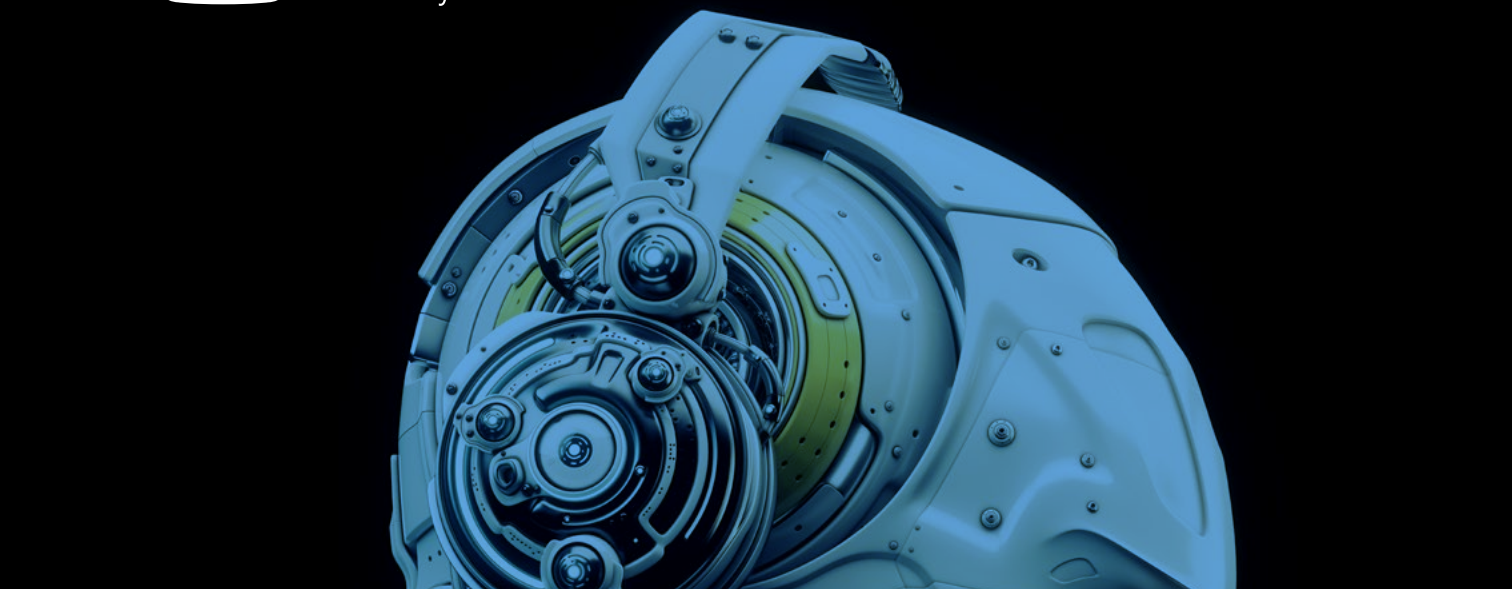
CAREER OPPORTUNITIES: Upon graduation of this course one may pursue positions in R&D departments in international companies in the field of telecommunication. There is also an option to continue studies and get PhD.

POLYTECH

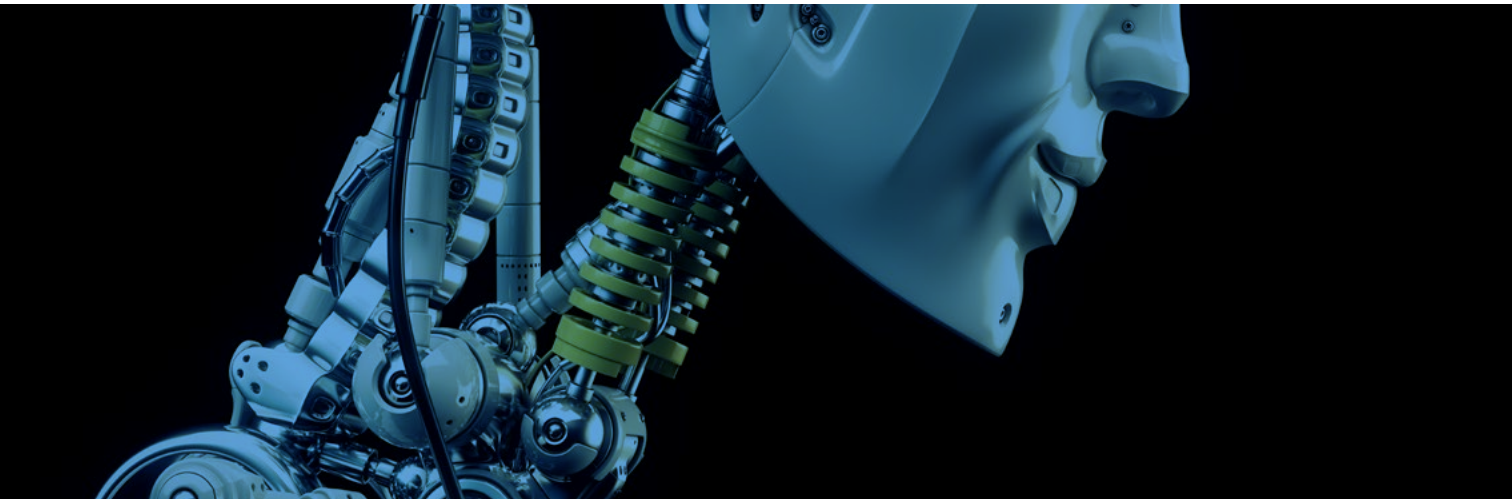
Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

DOUBLE DEGREE



INTELLIGENT SYSTEMS



PROGRAM NAME: Intelligent Systems

AWARD: SPbPU - MSc in Information Science and Computer Engineering, 3 options for the second diploma: City, University of London, UK – MSc Computers and Information Engineering **OR** Leibniz Universität Hannover – MSc in Mechatronics **OR** Lappeenranta University of Technology - MSc in Computational Engineering and Technical Physics, Computer Vision and Patern Recognition.

MODE OF STUDY: full-time

COURSE DURATION: 2 years: 2 semesters at SPbPU + 2 semesters at a partner university (optional). Double Degree option is performed in cooperation with either City, University London or Leibniz Universität Hannover or Lappeenranta University of Technology.

PROGRAM OUTLINE: The objective of the program is to prepare high qualified specialists with the knowledge of state-of-art and new trends of intelligent systems, information processing technologies and control systems, having pertinent skills how to apply learning outcomes. In partnership with City, University London the program provides a unique experience in IT in the best traditions of the Russian and Britain scientific schools. In partnership with Leibniz Universität Hannover the program is focused on state-of-the-art and new trends of automation and intelligent robotics and skills in developing control systems and technologies. In partnership with Lapeenranta university of Technology the program is focused on on computer vision systems and machine learning contributing to the current trends in industrial automation.

CURRICULUM* (GENERAL MODULES):

MODULES	ECTS
Advanced Methods of Programming and Modeling	13
Advance Information Technologies	11
Fundamentals of Artificial Intelligence Systems	20
Information processing systems/Intelligent Systems for Data Processing/Production Systems Control	21
Research Work	25
Master's Thesis	30
Total	120

*Additional information on modules taught at partner universities may be requested

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:

- Great Britain — City, University of London
- Germany — Leibniz Universität Hannover
- Finland - Lappeenranta University of Technology
- Germany — Siemens AG, SAP AG
- Germany — Festo AG & Co

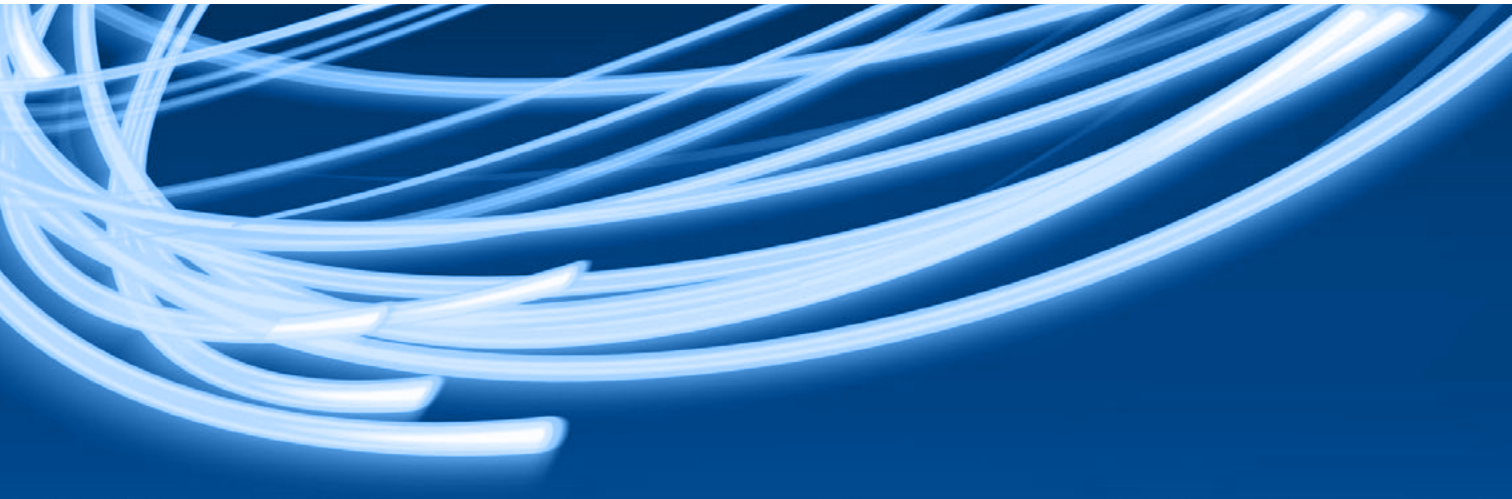
CAREER OPPORTUNITIES: Our graduates will have great opportunities of to be employed in Russian and international engineering and automation companies as well as to continue their education in international PhD program. The Program is carried out in cooperation with leading Russian and international companies.

POLYTECH

Peter the Great
St.Petersburg Polytechnic
University

ENGINEERING

MECHANICS AND MATHEMATICAL MODELING



PROGRAM NAME: Mechanics and Mathematical Modeling

AWARD: Master of Science

MODE OF STUDY: full-time

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

PROGRAM OUTLINE: The program is aimed at training highly professional scientists and engineers with the background and practical experience in theoretical mechanics, computational mechanics, mathematical modeling and simulations, and distributed computing. Special focus is set on renewable energy, namely, the skills can be applied to reliability and strength analysis of such alternative energy sources as solar panels and wind power equipment, as well as power stations based geo- and hydrothermal energy, and ocean energy.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Computational Mechanics	13
Mathematical Modeling and Simulations	21
Mechanics Fundamentals	16
Advanced Problems in Mechanics	17
Personal Research Project	38
Master's Thesis	15
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 (in person or via Skype)

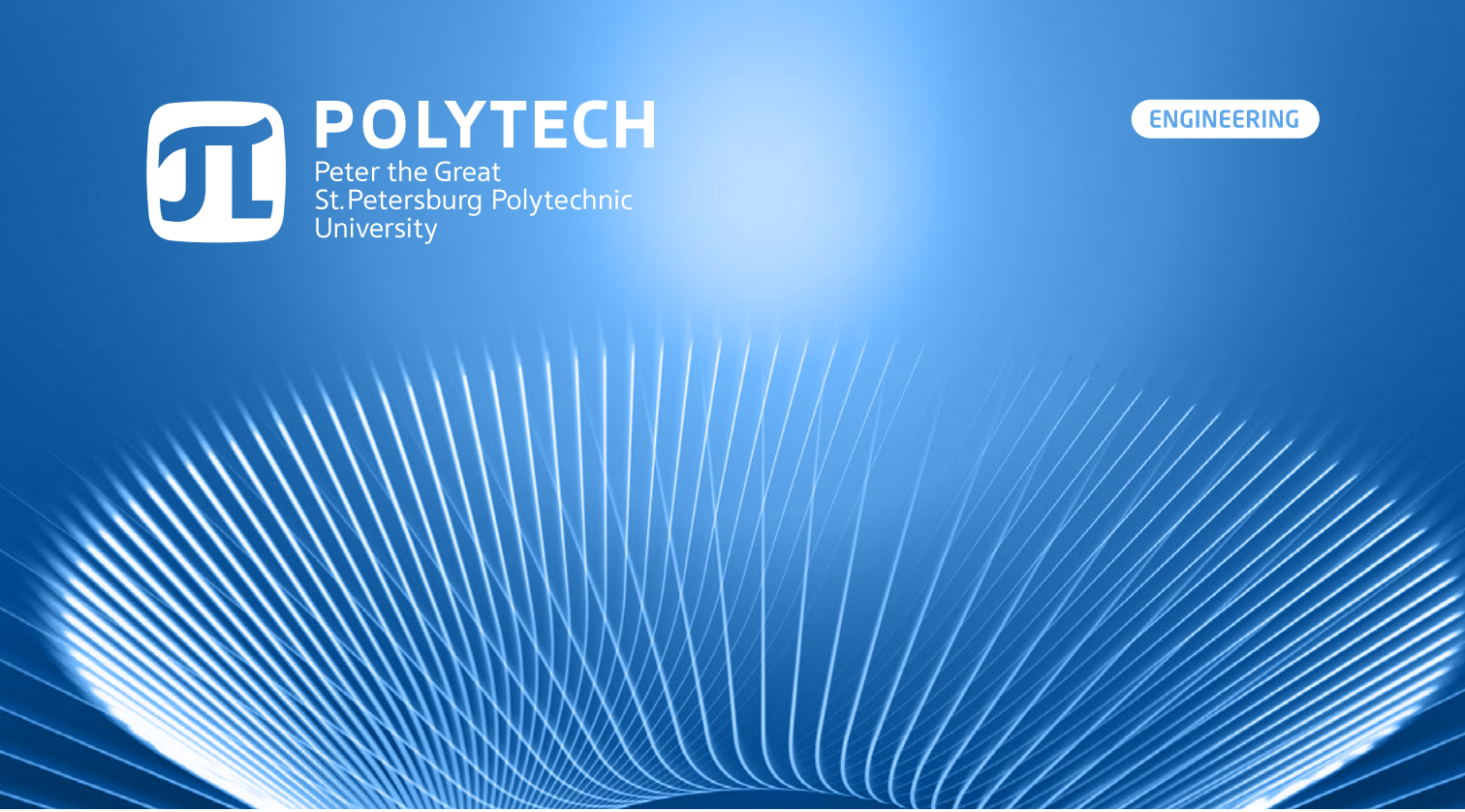
PARTNERS:

- Germany — Leibniz University of Hannover
- Germany – Technical University of Berlin
- Germany – Otto von Guericke University Magdeburg
- The Netherlands — Delft University of Technology
- Russia – Institute for Problems in Mechanical Engineering RAS

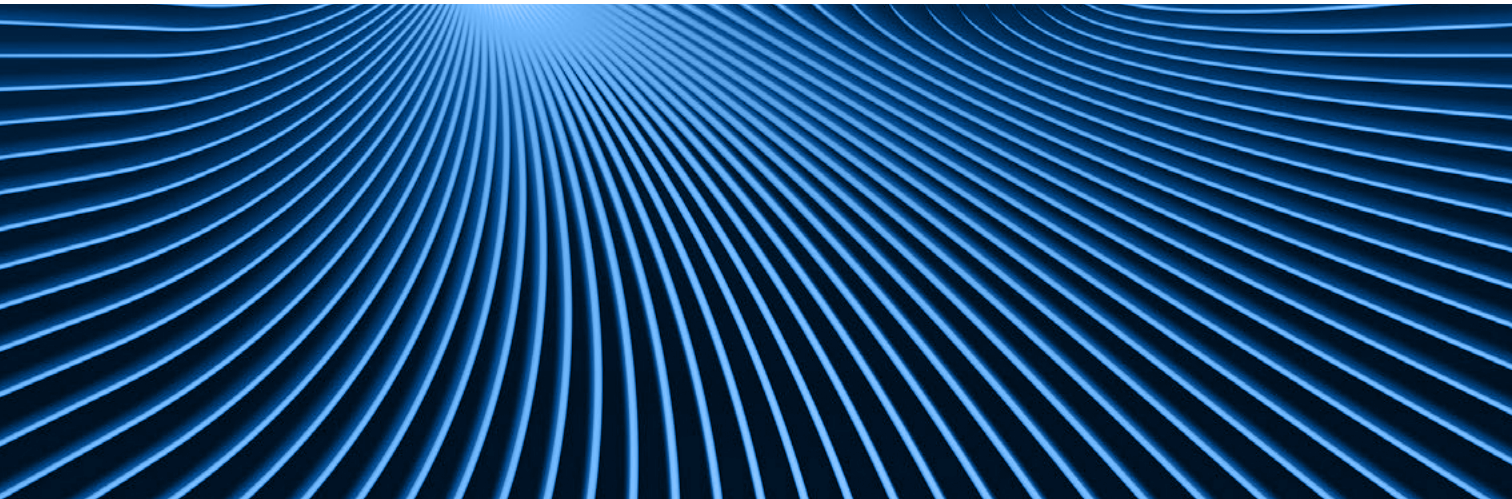
CAREER OPPORTUNITIES: Our graduates will be able to get a challenging and a well-paid job in research institutes, centers and laboratories, as well as in R&D and engineering departments of oil and gas, car-making, power and engineering, aerospace industries and others.

POLYTECH
Peter the Great
St. Petersburg Polytechnic
University

ENGINEERING



CONTINUUM MECHANICS: FUNDAMENTALS AND APPLICATIONS



PROGRAM NAME: Continuum Mechanics: Fundamentals and Applications

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 is aimed to prepare professionals and experts who are able to formulate and solve a wide range of problems arising in various fields of continuum mechanics – both mechanics of solids and fluids. The course is supported by engineering applications in hi-tech and advanced manufacturing technologies.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Basic Courses: Mechanics and Thermodynamics of Continua, Elasticity, Plasticity, Computational Solid Mechanics, Fluid Mechanics, etc.	30
Professional Courses: Fracture Mechanics, Micromechanics of Strength and Plasticity, Multiphase Flows, Computational Fluid Dynamics, etc.	30
Advanced knowledge: Mechanics of Rods and Shells, R&D of Mechatronic Systems, Mechanics of Coupled Fields, Micromechanics of heterogeneous media, etc.	30
Master's Thesis and Scientific Research Work	30
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:

- The Netherlands — Delft University of Technology
- Germany — Technical University of Berlin
- France — École Polytechnique
- Finland — Aalto University

CAREER OPPORTUNITIES: Our graduates will obtain the skills and develop critical thinking which are necessary to do both fundamental and applied research, using theoretical and computational mechanics of solids, gas and fluids in one pack, and, thus, beneficial for prospective international academic career or career in R&D departments of the aerospace, automotive, mechanical engineering power industries.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

MANAGEMENT & ENGINEERING

TECHNOLOGY LEADERSHIP AND ENTREPRENEURSHIP

PROGRAM NAME: Technology Leadership and Entrepreneurship (international educational program)

AREA OF STUDY: Launching and managing knowledge-intensive production ventures

AWARD: SPbPU diploma — Master of Science

MODE OF STUDY: full-time

COURSE DURATION: 2 years, program taught in English

PROGRAM OUTLINE: The program consists of two main tracks: Entrepreneurship (tech) and Intrapreneurship. It is designed for students aiming at pursuing an entrepreneurial career. It allows them to initiate and carry out genuine entrepreneurial projects. The program offers the unique opportunity to turn students` technology business ideas into successful start-ups (Entrepreneurship (tech)) yet to develop leaders and professionals inside the innovative ventures (Intrapreneurship).

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Global entrepreneurship (Venture campus group project)	5
Entrepreneurial thinking and competences	7
Technologies of the future and opportunities recognition	12
Innovation product new business REAL PROJECT (in partnership with CompMechLab)	6
Commercializing advanced technology and innovation product management	10
IP-management and master research	10
Internship REAL PROJECT (in partnership with BIOCAD)	6
Track choice “Entrepreneurship (tech) - New venture co-creation education” or Track choice “Intrapreneurship”	22
Internationalization REAL PROJECT	7
Master research work on thesis planning	5
Master thesis	30
Total	120

ENTRY REQUIREMENTS: Candidates are required to hold a Bachelor`s or Master`s degree in any subject area, all applicants must demonstrate English language proficiency at B+ level. Examination in the field of entrepreneurship and interview in English language with program coordinator (option – via Skype).

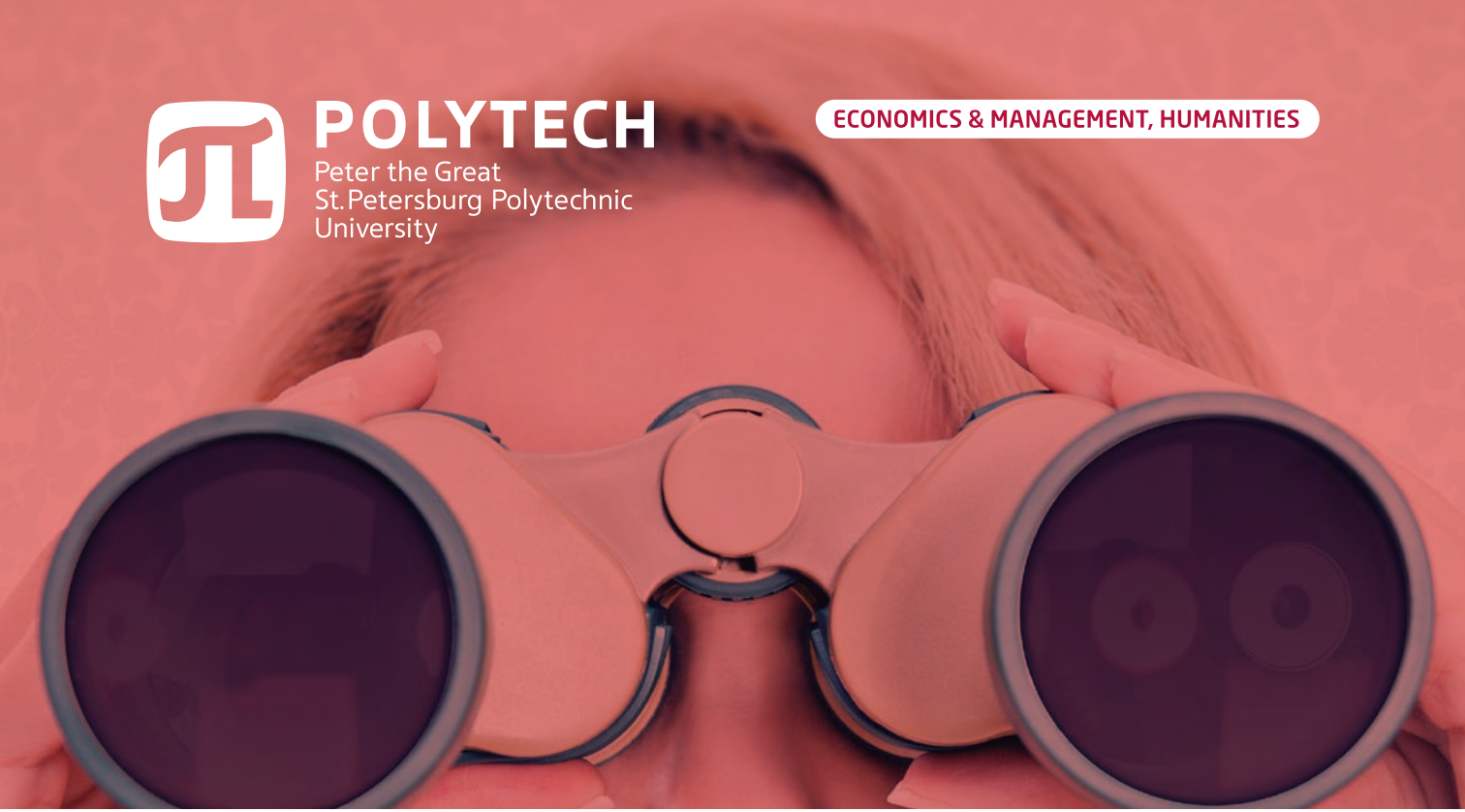
PARTNERS:

- Russia – CompMechLab (Russia`s leading engineering center)
- Russia – BIOCAD (Russia’s leading innovative biotechnology company)
- Russia – Russian-German Center for innovation and entrepreneurship “Polytech Strascheg”, Technopark and Business incubator
- Germany — Strascheg Center for Entrepreneurship
- Germany - Munich University of Applied Sciences
- Germany — Technical University of Berlin
- Austria — University of Applied Sciences Upper Austria, Steyr

CAREER OPPORTUNITIES: This program offers the unique opportunity to start your own business while studying at university. Other graduates can work as intrapreneurs in innovative companies. Besides, our graduates may continue their studies to get PhD.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES



REGIONAL STUDIES: RUSSIAN FEDERATION

PROGRAM NAME: Regional Studies: Russian Federation

AWARD: Master of Arts (MA)

MODE OF STUDY: full-time

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

PROGRAM OUTLINE: The course deals with problems of regional development and gives insights into cultural, historical, demographic and economic issues of the Russian Federation. The major objective of the program is to build-up knowledge, skills and abilities making it possible to perform a comprehensive analysis related to regions in the Russian Federation.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Language Competencies	28
Regional Studies	20
Political Science	12
Cultural Aspects of Russia	21
Social and Economic Issues in Russia	22
Master's Thesis and Research	17
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:

- Great Britain — The University of Warwick
- Finland — Saimaa University of Applied Sciences
- Finland — Tampere University of Applied Sciences
- Germany — Technical University of Berlin
- Germany — University of Stuttgart

CAREER OPPORTUNITIES: Our graduates can expect positions in international companies with Russian-based subsidiaries. On top of that having pertinent knowledge and practical skills they will be able to work in local administration and government, or continue to study for a PhD.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES

DOUBLE DEGREE

INDUSTRIAL MANAGEMENT

PROGRAM NAME: Industrial management

AWARD: Bachelor of Management, major in Industrial Management, Peter the Great St. Petersburg Polytechnic University; Bachelor of Engineering, Technical University of Applied Sciences Wildau, Germany

MODE OF STUDY: full-time

LANGUAGE OF INSTRUCTION: Russian and German

COURSE DURATION: 4 years, 8 semesters, 240 ECTS (including 2 semesters at partner university)

PROGRAM OUTLINE: The program contains both technical and business modules, which allows graduates to solve engineering problems as well as perform management positions in the company. Students learn about the way business is organized and obtain the view on production process from engineer's point. Internships in the leading German companies give a practical insight to the students' future career. Another advantage for the graduates is proficiency in German language.

PARTNERS: Technical University of Applied Sciences Wildau, Germany

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Industrial Management (Automated production technologies; Basics of construction and design; Distribution management; Basics of machines and mechanisms; Quality management)	35
General Disciplines (Science)	27
Mathematics and Natural Sciences Module	18
Information Technologies and support Module	20
Basic Module (Economic Theory; Management Theory; Engineering Graphics; Production Management; Strategic Management; Finance)	75
Project Module	46
Mobility Module	10
Thesis	9
Total	240

ENTRY REQUIREMENTS:

- Secondary education certificate or equivalent.
- Entrance examination: unified state exam (Mathematics, Russian language, Social studies)

CAREER OPPORTUNITIES: Graduates are employed in international companies in Russia or abroad as top managers of different departments. The key advantage of the graduate is knowledge and practical experience in both engineering and management fields. Many Industrial Management graduates begin their careers participating in corporate development projects, where they gain additional business and technical knowledge. Others start their careers as production supervisors, operations analysts, logistics managers or software business analysts. Another option for graduates is to continue their education in any of two fields in European or Russian Msc degree program.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES

DOUBLE DEGREE

INTERNATIONAL BUSINESS

PROGRAM NAME: International Business

AWARD: Bachelor of Management, major in International Business, Peter the Great St. Petersburg Polytechnic University; Double Degree option: Bachelor of Business Administration (BBA), Saimaa University of Applied Sciences

MODE OF STUDY: full-time

LANGUAGE OF INSTRUCTION: English

COURSE DURATION: 4 years, 8 semesters, 240 ECTS (including 2 semesters at partner university)

PROGRAM OUTLINE: The program gives insights into international business management and develops high-level leadership, analytical, cross-cultural and organizational skills. The major goal of the course is to train experts in the field of international business and help future entrepreneurs gain relevant profound knowledge to boost their management career. This program will help students to develop relevant skills and knowledge to build a successful career in an international company or create and lead their own business in Russia/abroad.

PARTNERS: Saimaa University of Applied Sciences

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
International Business	29
Elective Module	14
General Disciplines (Science)	15
Mathematics and Natural Sciences Module	20
Information Support Module	23
Foreign Language	20
Basic Module (Economic Theory; Management Theory; HR Management; Organization Theory; Finance; Management)	70
Project Module	40
Thesis	9
Total	240

ENTRY REQUIREMENTS:

- Secondary education certificate or equivalent
- Level of English - Upper Intermediate
- Entrance examination: Language Interview (personal or by Skype), English and Mathematics exam

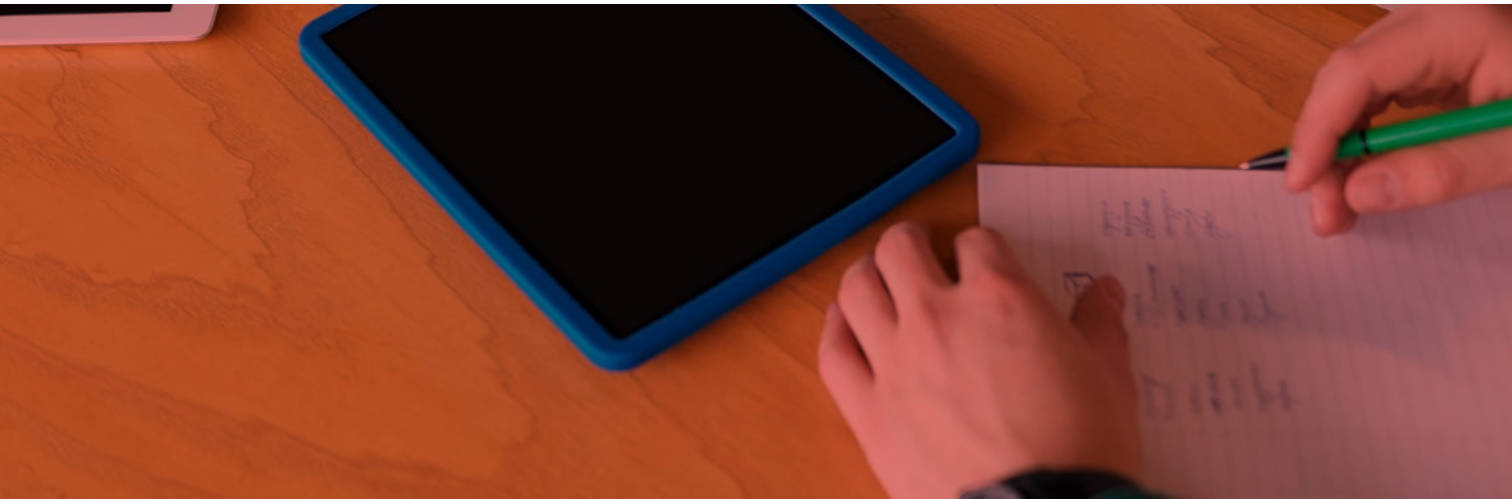
AREER OPPORTUNITIES: Areas of professional activity include international companies where graduates work as specialists or junior-level executives in a variety of business departments; multinational companies; government structures; organizations where graduates are entrepreneurs creating and developing their own international business.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES

DOUBLE DEGREE

INTERNATIONAL MANAGEMENT



PROGRAM NAME: International Management

AWARD: Master of Management, major in International Management, Peter the Great St. Petersburg Polytechnic University; Double Degree option: Master of Arts, major in European Management, Technical University of Applied Sciences Wildau, Germany

MODE OF STUDY: full-time, program taught in English

COURSE DURATION: 2 years, 4 semesters, 120 ECTS (optional: 2 semesters at partner university)

PROGRAM OUTLINE: The program provides knowledge and skills that enable graduates to perform tasks of their professional activity in organization in various departments of international companies, to develop and implement management decisions in context of current economic situation, to form a new scientific, methodological and organizational database of management activities of organization.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Methodology of science and research methods in management	10
International management	30
International business	20
International finance and accounting	10
General courses	14
Internships	24
Master's Thesis	12
Total	120

ENTRY REQUIREMENTS:

- Bachelor Degree or equivalent
- Level of English - Upper Intermediate
- Entrance examination: Language Interview (personal or by Skype) and Management exam

PARTNERS:

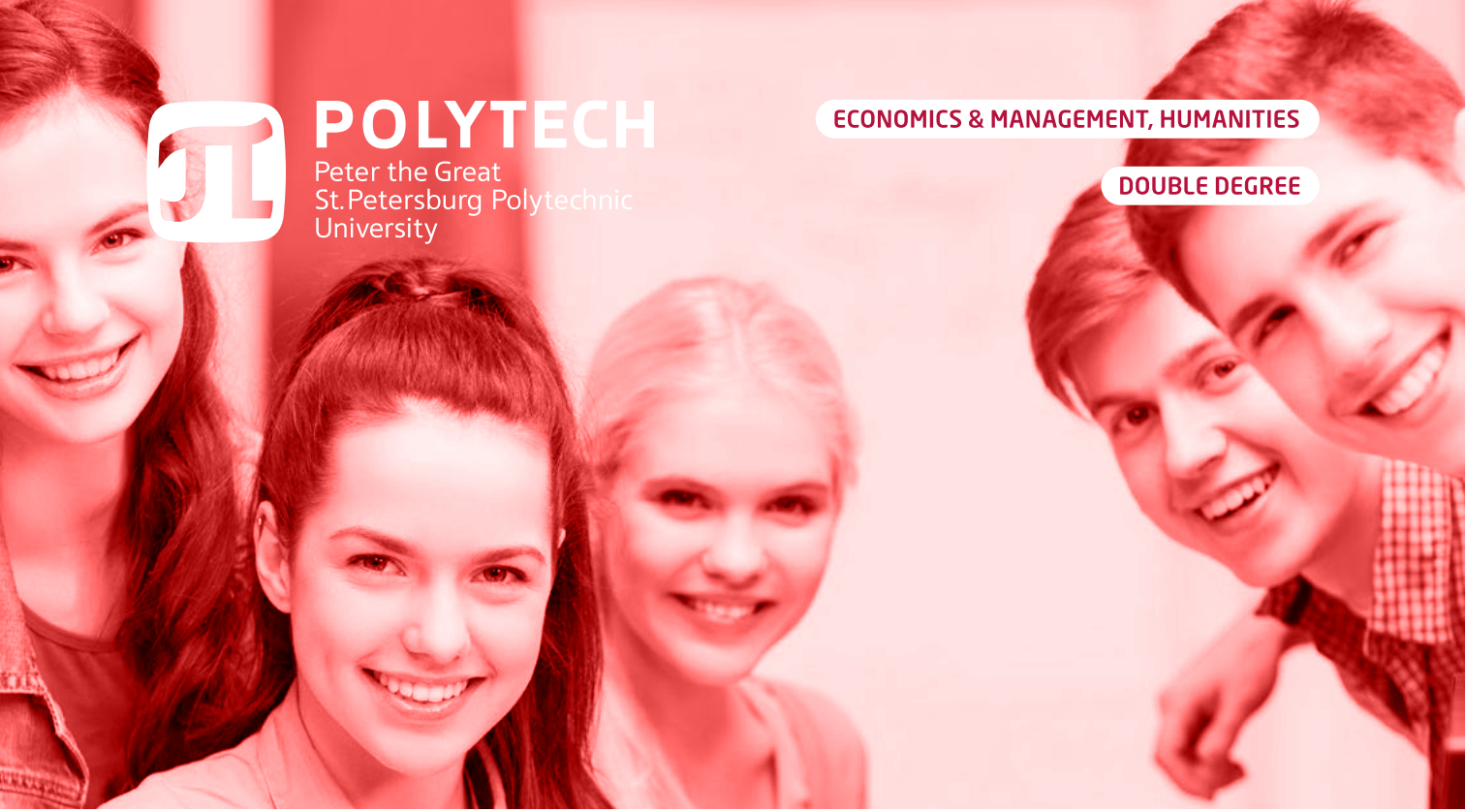
- Technical University of Applied Sciences Wildau (TH Wildau)

CAREER OPPORTUNITIES: Masters of International Management are specialists with profound theoretical knowledge and practical experience in international business organization and administration of different departments. The program provides knowledge and skills that enable graduates to perform tasks in international companies connected with the organization of the various departments, development and implementation of management decisions in context of current economic situation. The Master's program is aimed at training of high-level specialists capable of working in international business environment.

POLYTECH
Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES

DOUBLE DEGREE



INTERNATIONAL BUSINESS DEVELOPMENT

PROGRAM NAME: International Business Development

AWARD: SPbPU diploma — MSc in Management (International Business Development),
Double Degree option: UUA diploma — Master of Arts (MA) in Global Sales and Marketing **OR** LUH diploma – MSc in Economics and Management.

MODE OF STUDY: full-time, program taught in English

COURSE DURATION: 2 years: 2 semesters at SPbPU + 2 semesters at a partner university (optional).
Double Degree option is performed in cooperation with University of Applied Sciences Upper Austria, Steyr and with Leibniz Universität Hannover (Germany).

PROGRAM OUTLINE: The program is designed to provide comprehensive knowledge and practical skills to become true managers with high-level of leadership, analytical, cross-cultural and management skills in the field of international business. It is a practice-oriented course with the focus on B2B segment and research activities. The course is aimed at providing business professionals and managers with the ability to apply their knowledge, skills and creativity to meet global demands.

ACCREDITATION: The program is accredited and certified by the international agency «Accreditation, Certification and Quality Assurance Institute – ACQUIN» and fully complies with the international standards.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Advanced Management	18
International Management and Business Communication	12
International Business	17
International Finance and Economics	13
International Industrial Business	14
International Operations Management	15
Master's Thesis and Interdisciplinary Work	31
Total	120

Accredited by ACQUIN

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:

- Austria — University of Applied Sciences Upper Austria, Steyr
- Germany – Leibniz Universität Hannover
- Germany — ESB Business School, Reutlingen
- Germany — Strascheg Center for Entrepreneurship, Munich University of Applied Sciences

CAREER OPPORTUNITIES: With the knowledge and practical skills acquired by completion of the course many graduates can work for large international companies as managers in B2B segment, set up their own business with international focus, and continue to study for a PhD and become research experts.

POLYTECH

Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES

DOUBLE DEGREE

INNOVATIVE ENTREPRENEURSHIP

PROGRAM NAME: Innovative Entrepreneurship

AWARD: SPbPU diploma — MSc in Management (Innovative Entrepreneurship)
Double Degree option: TUB diploma — MSc in Innovation Management, Entrepreneurship and Sustainability

MODE OF STUDY: full-time, program taught in English

COURSE DURATION: 2 years: 2 semesters at SPbPU + 2 semesters at a partner university (optional)
Double Degree option is performed in cooperation with Technical University of Berlin

PROGRAM OUTLINE: Innovation and entrepreneurship always keep pace together in the context of any competitive environment in today's world. It is always a challenge for companies to invent new groundbreaking products, reshape their internal strategies and create value through different ways of thinking to become highly competitive on a certain market. The Master's program 'Innovative Entrepreneurship' is designed to teach how to overcome these challenges.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Entrepreneurship	10
Management and Leadership	12
Business and Entrepreneurship Research	8
Innovation Product Management	15
Internship and Industrial Business Research	15
Managing Innovative Projects	15
Marketing and Sales	15
Master's Thesis and Interdisciplinary Work	30
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 — Strascheg Center for Entrepreneurship, Munich University of Applied Sciences
- Russian-German Center for Innovation and Entrepreneurship "Polytech Strascheg", Technopark
- The Center for Entrepreneurship (CFE), Ingria Incubator

CAREER OPPORTUNITIES: With the knowledge and practical skills acquired by completion of the course many graduates can work for large international companies in the innovation department, set up their own business with international focus, and continue to study for a PhD and become research experts.

POLYTECH

Peter the Great
St.Petersburg Polytechnic
University

ECONOMICS & MANAGEMENT, HUMANITIES

DOUBLE DEGREE

TECHNOLOGIES OF BUSINESS ENGINEERING

PROGRAM NAME: Technologies of Business Engineering

AWARD: SPbPU diploma — MSc in Business Informatics
Double Degree option: LUT diploma — MSc in Software Engineering

MODE OF STUDY: full-time

COURSE DURATION: 2 years: 2 semesters at SPbPU + 2 semesters at a partner university (optional)
Double Degree option is performed in cooperation with Lappeenranta University of Technology

PROGRAM OUTLINE: The program is aimed at training professionals in business management with a focus on ICT using advanced theoretical and practical achievements in the field of enterprise architecture, business process reengineering, project management, development, implementation and maintenance of information systems. All the subjects are taught in accordance with standards and technologies of enterprise management in Russia and worldwide.

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Ethical and Language Skill	10
Business Courses	22
IT Courses	29
Internship	9
Master's Thesis and Research Work	50
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:

- Russia — "Korus Consulting"
- Russia — Netrika
- Russia — Dialog IT

CAREER OPPORTUNITIES: Having unique streamlined knowledge of how to design and run business in the period of digital transformation and how to use modern IT to enhance business performance and provide sustainable development, our students become high-demand professionals on the global labor market. Besides, our graduates may continue their studies to get PhD.