POLYTECH
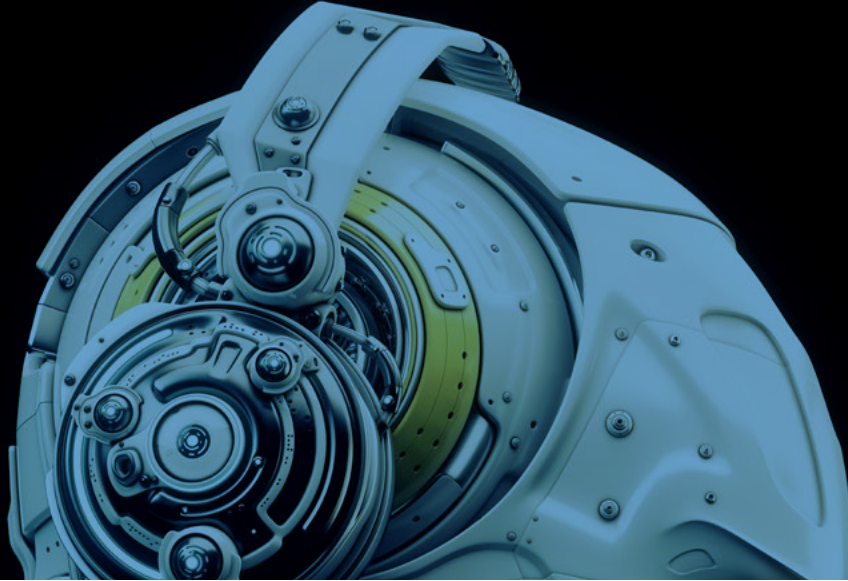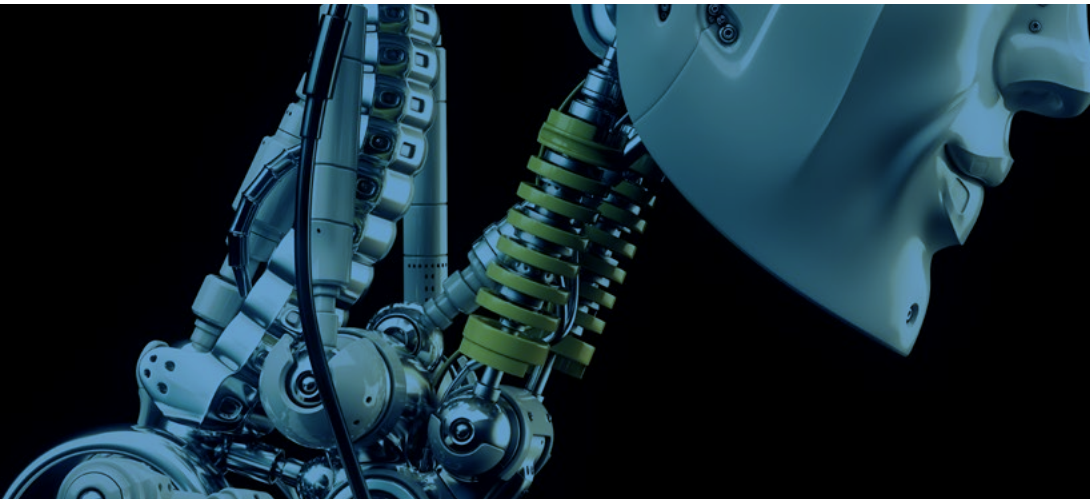
Peter the Great
St. Petersburg Polytechnic
University

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** LUT Univerisity - 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 LUT Univerisity.

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 LUT Univerisity 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 — LUT Univerisity

· 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.