

Special Engineering Forces Training at SPbPU

Peter the Great St. Petersburg Polytechnic University has put into practice the idea of creating a system for the training of experts of a new breed – special engineering forces. The university has approbated and implemented practice-oriented educational programs that involve interdisciplinary project work of students based on the CDIO concept and engage technological and industrial partners in the educational process.



The Institute of Advanced Manufacturing Technologies (IAMT) was established at SPbPU in 2015 as a major institute for the development and application of advanced manufacturing technologies focused on the training of special engineering forces – experts that would be competitive at a global level, possessing world class competencies.



After the first year of education, master's degree students of the IAMT studying "Computer Engineering and Digital Production" were ready to present their achievements to the Rector of the university.



The IAMT students have the opportunity to conduct research as part of the R&D by the commission of major Russian and foreign companies and take part in solving grand industrial challenges.



"Practice-oriented approach and demand in the labor market are two undisputed advantages of a master's degree at the IAMT," student Tatiana FILINA shared her impressions. The students have been particularly impressed by the lectures of guest professors and practitioners, who presented innovative approaches to the management of supply chains for advanced products, taught English, and much more. Three big projects of the first-year students of the master's degree program "Computer Engineering and Digital Production" were presented in detail.



The meeting between the IAMT students and Rector A. I. Rudskoy also saw a presentation of the results of the international student project implemented by SPbPU students in association with the PolytechStrascheg Russian-German Center for Innovation and Entrepreneurship.



At the end of the meeting, students demonstrated the operation of a desktop dual extrusion 3D printer that is capable of printing two materials simultaneously. Working with two materials at the same time, it is possible to manufacture products from a conductive and insulation material, and print products of irregular shape with soluble support. The staff of the IAMT believe that in a decade, such technologies will allow printing an entire satellite using a 3D printer.



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