

#What_to_become: a Master's Degree Program in Material Processing Technologies

Experts in such industrial fields as materials science, casting and welding technologies are in demand not only in the Russian, but also in the international labor market. Many graduates of these areas are interested in working at international companies, and proficiency in a foreign language, along with professional skills, is one of the main competitive advantages.

However, only few universities offer [educational programs](#) where future specialists simultaneously receive both linguistic and specialized education. Typically, a foreign language is learned after a university program, paralleling study and work.



Since 2019, the international master's degree program in Materials Processing Technologies will resume on the basis of the SPbPU Institute of Metallurgy, Mechanical Engineering and Transport. Polytechnic University will implement it jointly with the Cottbus-Senftenberg Brandenburg Technical University (BTU; Germany). The goal of the program is to train specialists proficient in two languages: Russian and German. It is planned that graduates will work in the Russian-German technology companies, as well as get the opportunity to conduct

research in the framework of international Russian-German projects.

The idea of creating a program belongs to colleagues from BTU. They took the initiative to set an international Russian-German program, after they had received a number of requests from German employers regarding the need to train multi-discipline engineering specialists with good knowledge of the German language and Russian mentality for working in the Russian branches of German technical companies.

The curriculum of future masters in Material Processing Technologies includes such disciplines as materials science, foundry technology, metal forming, and welding technology. Major attention is paid to methods of technology development with the use of computer simulation.



Along with lectures, seminars and practical exercises, the educational process will engage new teaching aids: eLearning, Internet platforms, elements of distance learning, etc. Dynamic design and research activities are planned are also on the plate.

Just as in other SPbPU international educational programs, interdisciplinary faculty of scholars and practitioners from foreign partner universities are invited to give lectures and conduct seminars. BTU lecturers Veselin Mikhailov, Ralph OSSENBRINK, Nikolai DAYNOV and others have already agreed to participate in the

program.

The program is designed for 2 years and is divided into 4 semesters. The students will study at SPbPU through the first year and go to a partner university for the second. Before that, they will have to take an online OnDaF testing to assess the level of their knowledge prior to the intensive language courses in Germany.

The international industrial orientation of the program provides its graduates with feasible opportunities for future employment in the Russian-German technical companies specializing in materials science, casting technologies, metal forming and welding technologies

The international educational program in Materials Processing Technologies is open to students with a Bachelor's degree / Specialist's degree in metallurgy, materials science or a related field. Since the program is partly taught in German, the minimum level of proficiency in German should be no lower than B2.

Do you still have questions? Ask the program coordinator, candidate of technical sciences, associate professor of the department "Technology and materials research" A.A. NAUMOV:

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