

School of Non-Ferrous Metals and Material Science presents its programs for future students

29 July 2021 is the application deadline for full-time state-funded programs. [Metallurgy](#), Material Science and Materials Technology are promising fields of study with a sufficient number of state-funded places for students.



School of Non-Ferrous Metals and Material Science trains sought-after scientists, engineers and managers. The School collaborates with Norilsk Nickel, Krastsvetmet, PJSC Polyus, RUSAL Krasnoyarsk. These enterprises are interested in new qualified personnel who are immediately employed after practical training and internship. In addition, the School's technological partners provide scholarships for students. Programs offer fundamental training in engineering and natural sciences, sufficient to continue training in master's degree programs.

CDIO Metallurgy program may be of particular interest. The main principle of this program is to train new generation engineers capable of changing the world for the better. Future engineers can pursue higher education and participate in the management of their educational trajectories together with supervisors and managers in a customized student office. The key learning outcome of this program is design and implementation skills. The student learns project thinking by performing virtual and real metallurgical projects, proving the importance of a modern project approach in engineering training and professional, personal and interpersonal competencies following with international standards of engineering education.

“Modern metallurgical production is associated with the creation of modern control and automation systems. It covers promising areas of work of an engineer in computer-aided design of processes and production in metallurgy. The classes are held in the Laboratory for Automation and Virtualization of Processes, with active involvement of VR and digital technologies,” said **Vladimir Baranov**, head of the School.



The chemical industry in the modern world is a binder for all sectors, and it has been actively developing over the past decade. Without chemical industry, the development of space and machine-building technologies, the creation and production of new materials is impossible. On the one hand, production technologies have become more accessible and application of chemical products is constantly expanding, which means that the demand in the labor market is growing. The world is gradually moving to composite materials and memory alloys, which are durable, flexible, corrosion-resistant and have many other valuable properties. The tasks of modern materials science are to improve the quality of known materials, obtain materials with given characteristics, and comprehensively study their composition, structure, and properties.

“Modern chemical analysis of metals and alloys is an important stage of expertise used to determine the quality of products and verify their compliance with current standards. In modern metallurgy, we cannot achieve high technical indicators without appropriate control at all levels of the process. Analytical control is necessary to support the process, prevent

defects, and ensure the necessary quality standard of products,” underlined **Vladimir Baranov**.

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