

Material science and engineering

Siberian Federal University

Degree or qualification is awarded: **Bachelor**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **no**

Price: **170 622 RUB per year**

Programme webpage at the university website:

http://edu.sfu-kras.ru/sites/edu.sfu-kras.ru/files/oop/annotations/Annotaciya_OP_22.03.01.07.pdf

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The purpose of the educational program is to give the humanitarian, economic and natural scientific knowledge, and to help students to obtain a wide range of general professional and specific knowledge, skills and competencies in materials science and materials processing technologies (foundry production, metal forming, welding technology, material cutting) in machine building, shipbuilding and aircraft engineering, power engineering, oil and gas production, tool engineering, etc., and which encourage the graduate to work successfully and progress in their professional field.

Tasks:

- to give a better view of the goals and objectives of engineering in the field of materials science and materials processing;
- to form a general cultural and professional level of the graduates necessary for their successful professional and social life;
- to form basic concepts about the elements, structure and properties of engineering materials and their interrelations needed to develop and implement the production processes;
- to provide guidance for the production, research and managerial activities in the field of obtaining materials, moulding the product and their strengthening;
- inspire and foster independent learning and professional development in the field of materials science and materials processing.

Competitive advantages for a graduate: high erudition and outlook in the field materials science and a wider range of competencies in the field of research, selection and technologies for processing the materials used in mechanical engineering and other industries; readiness for scientific, production and business activities makes the graduates relevant for a growing labour market. The graduates of the program may choose to continue their professional training and apply for master's degree programs.

Employment: manufacturing and tool engineering enterprises, R&D and research and production associations, factory laboratories and research centres and defence industry enterprises. Positions to be held: materials scientist, production supervisor, technologist, process engineer, engineer, production manager, entrepreneur, researcher.

Specializations within this programme