

Metallurgical Machinery

Siberian Federal University

Degree or qualification is awarded: **Master's degree diploma**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price:

Programme webpage at the university website: <http://edu.sfu-kras.ru/programs>

Programme curator: **Anatolii Gilev**

Tel.: **+7 (391) 206-36-62**

E-mail: anatoliy.gilev@gmail.com

The aim of educational program is creating an educational environment for the graduate to form a set of competences (knowledge, skills, abilities) in the field of technological machinery as well as be able to develop technical specifications, select optimal solutions, prepare applications for inventions, develop plans and programs for organizing innovation activities, prepare reviews and conclusions on projects, develop activities for the integrated use of raw materials, organize work to improve staff efficiency, develop physical and mathematical models of the machinery being studied, prepare scientific and technical reports, develop methodological and regulatory documents.

Program tasks:

- self-education and research skills;
- in-depth study of the theoretical and methodological foundations of science;
- improvement of philosophical, vocationally oriented education;
- improvement of foreign language knowledge, including its use in professional activities.

Special disciplines:

- Performance properties of materials.
- Dynamics and strength of machinery and structures.
- Mechanization of technological processes of metallurgical production.
- Technical and economic assessment of repair techniques of metallurgical machinery.
- Contemporary methods of design and construction of metallurgical machinery.

Competitive advantages for a graduate: scientific and research activity in the sphere of production and functioning of machines, drives, IT and computer equipment and tooling, mechatronics and robotic systems, automated control systems for production and technological processes of engineering, systems of design and technological preparation of production, new types of mechanical, physical and technical material processing, information space of business planning and management, programs of innovative activity in the conditions of modern engineering.

Employment: engineering management positions in metallurgical companies and other sectors of the national economy.

Strategic partner:

1. Public Joint Stock Company “Mining and Metallurgical Company “NORILSK NICKEL”.
2. Joint Stock Company «Kolskaya Mining and Metallurgical Company».
3. Public Joint Stock Company «Polyus».

Specializations within this programme