

# Electrotechnology in Metallurgy

Siberian Federal University

Degree or qualification is awarded: **Master**

Language of study: **Russian**

Mode of study:

Duration: **2 years**

Availability of free education: **no**

Price: **181 856 RUB per year**

Programme webpage at the university website:

[http://edu.sfu-kras.ru/sites/edu.sfu-kras.ru/files/oop/annotations/AN\\_13.04.02.07.pdf](http://edu.sfu-kras.ru/sites/edu.sfu-kras.ru/files/oop/annotations/AN_13.04.02.07.pdf)

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The **purpose** of the degree program is to train graduates who have common cultural, basic professional and specific professional competencies in accordance with the educational standard.

## Tasks:

- to form the competencies necessary for the professional career;
- to form the knowledge and skills to use it to improve and develop advanced electro-technological systems and electro-technological equipment, R&Ds for modern electrotechnological systems, operation of industrial electrical installations etc., which ensures the effectiveness of their subsequent professional activity;
- to form the ability to acquire new knowledge, psychological readiness to change the type and the nature of their professional activities, and to provide the opportunity to continue their education for the graduate;
- to provide a variety of educational opportunities for the students, the possibility to choose some of the studied disciplines;
- to train the future staff able to be flexible and active in the modern changing conditions for those areas relevant to electrotechnical installations and systems.

**Competitive advantages for a graduate:** the peculiar feature of this program is the focus of each student on a specific task, obtained after their admission to this Master's degree program. As they learn, the students must independently propose solutions to the problem, show the ability to use basic knowledge of natural sciences, apply the methods of mathematical and physical modelling, use modern information technologies, databases and software in their subject area. The master thesis should include stages of an international review of publications on the topic; development of an electrical technology or a device; design; making a physical model; giving recommendations for practical adoption of the invention developed or actually adopt it.

**Employment:** the graduates may hold positions of developers, designers of electrotechnical equipment for metallurgy in research and design institutes.

## Specializations within this programme