

Power Engineering

South Ural State University

Language of study: **Russian**

Mode of study: **full-time, part-time**

Duration: **4 years**

Availability of free education: **no**

Price: **126 500 rubles**

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One of the most promising among the technical areas in SUSU. Each student in this direction have a unique opportunity to explore the world and develop their own technical solutions in the field of energy saving and energy efficiency . Ability to develop automated motion control system in different industries is another important skill to master during their studies. The demand for professionals with these and other relevant competences according to experts, will steadily grow over the next 10 years.

Graduates work as software engineers, designers and developers of electrical systems and facilities, service engineers on electric drive and software controls, power engineers etc. They are in demand in power generation, oil and gas industry and metallurgy, transportation, instrumentation, mechanical engineering and other knowledge-intensive industries.

Specializations within this programme

Electrical and electronic systems for ground vehicles

Students are study power systems, converters and electric drives of power, technological and auxiliary installations, their systems of automatics, inspection, and diagnostics in aircraft.

Electric drive and automation of industrial installations and technological complexes

The objects of professional activities:

- electrical machines, transformers, Electromechanical complexes and systems, including their management and regulation, electric drive and automation of mechanisms and technological complexes in various sectors of the economy;
- power systems, converting devices, electric drives of power, technological and auxiliary installations, their systems of automation, control and diagnostics.

The scope of activity of graduates

design, commissioning and operation of control systems of electric drives of various industrial mechanisms, electric vehicle, robotics, agriculture and communal services, household appliances, instrumentation, implementation and maintenance of automation systems based on modern computer technologies.