

Power- and Electrical Engineering

South Ural State University

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

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **no**

Price: **161 600 rubles (Russian) - 179 000 rubles (English)**

Programme webpage at the university website:

<https://www.susu.ru/en/education/masters-degree-programs/electric-power-engineering-and-electrical-engineering>

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Educational program 13.04.02 Power and Electrical Engineering was developed with the requirements of federal legislation and taking into account the needs of the regional labor market, traditions and achievements of the scientific and pedagogical school of the university.

The goal of the program is formation of cultural and professional competences and focusing on training students who are able to conduct experimental research, production and technological, organizational and managerial activities and project calculations at transport enterprises working with automotive electronics.

Specializations within this programme

Energy and resource - efficient piston engines

Training of specialists in the design, testing and research of piston internal combustion engines, their components and assemblies; improve workflow engines. Graduates get practical skills and knowledge to solve the following professional tasks:

- justification of the adopted design and technical solutions;
- development of conceptual, technical and working projects of complex products using automation tools design, best practices for the development of competitive products;
- development of methodological and normative documents, technical documentation, and proposals and measures for implementation of the developed projects and programs;
- the development of work plans and programs of scientific research and technical
- development, preparation of individual tasks for performers;
- the choice of the methodology and organization of experiments;
- develop physical and mathematical models and algorithms and programs based on them;
- organization work of collective of executors, acceptance of performance solutions in terms of the spectrum of opinions, determining the order of execution.