Software Engineering

South Ural State University

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

Language of study: **Russian**
Mode of study: **full-time**
Duration: **2 years**
Availability of free education: **yes**
Price: **161 600 rubles**

Programme webpage at the university website:
https://www.susu.ru/en/education/masters-degree-programs/090404-software-engineering-security-and-protection-software

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The aim of the program is to train highly qualified specialists with in-depth training in programming, information processes, applied mathematical modelling and information protection for work in companies and institutions with a developed computer network where they can use their knowledge to ensure security and reliable operation of computer systems. A distinctive feature of the program is that students study in depth the mathematical theory of computer security and number-theoretic approaches to information security. The mathematical basis is a necessary element of any serious information security system.

Graduates have all the necessary knowledge required in to solve various professional functions, including the application of science-based technologies, providing security of complex software products and databases, employing in their work information coding methods.

The area of professional activity of graduates who have finished the master's program:

- development of algorithms and complexes to ensure the security of software systems;
- information coding;
- administering local computing systems and writing security policies;
- search for vulnerabilities and security testing of software systems.

Specializations within this programme

Safety and Security of Software Systems

Software Engineering (Security and Protection of Software Systems)

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