Computer Systems Engineering and Informatics (Master)

Saint Petersburg Electrotechnical University "LETI"

Degree or qualification is awarded: **Master**

Language of study: **Russian**
Mode of study: **full-time**
Duration: **2 years**
Availability of free education: **yes**
Price: **208 000 rubles per year**

Programme webpage at the university website:
https://etu.ru/en/study/masters-degree/computer-systems-engineering-and-informatics

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The program provides fundamental theoretical and practical training in the field of modern distributed computing, metacomputing, Grid and cloud computing technologies, distributed intelligent systems and databases. Among the professions related to ICT, the most demanded are the professions aimed at system analysis of the subject area, design, administration and maintenance of ITS software, project and information management. Master's programs

The following programs in Computer Systems Engineering and Informatics (09.04.01) are available:

1. Computer Technologies of CAD Engineering;
2. Automated Design in Electronics and Mechanical Engineering;
3. Distributed Intelligent Systems and Technologies;
4. Software for Information and Computing Systems;
5. Microsystem Computer Technologies: Systems on a Chip;
6. Computer Science and Knowledge Discovery (in English).

Program objectives

- To prepare graduates for professional engineering and research activities and professional growth in the development, application and maintenance of computer facilities on the modern element base - super-large integrated circuits and systems on a chip;
- To ensure that students mastering modern and promising techniques and technologies for designing systems on a chip based on the latest computer-aided design systems, as well as the creation and development of such systems;

And to contribute to:

- Student awareness and motivation to learn and develop their creative potential throughout their professional lives;

- Better communication and teamwork skills in students;
- Development of professional and social responsibility in students;
- The ability to adapt to the rapidly changing world of information technology and engineering.

Specializations within this programme

Your future career

Program graduates are able to:

- Solve problems related to data analysis, the extraction of new patterns and knowledge, the development and selection of methods and algorithmic models for solving complex problems in various subject areas;
- Use modern computer technologies;
- Provide administration of information systems and networks, including the Internet;
- Apply object-oriented, visual, parallel, functional and logical programming for the construction of software systems and complexes;
- Develop software for the Internet;
- Work with modern hardware platforms.

Graduates of the program are demanded both by large state enterprises, small and medium-sized companies, as well as international companies.Graduates are in demand due to the fact that they possess a unique combination of knowledge of software, hardware, as well as tools and software packages for design and modeling. Graduates of the program are engaged in design of various software and hardware systems on the perspective elemental base, starting from fundamental search research and ending with design, production support and maintenance of specific hardware.