

Computer Systems Engineering and Informatics (Postgraduate)

Saint Petersburg Electrotechnical University "LETI"

Degree or qualification is awarded: **PhD**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **220 000 rubles per year**

Programme webpage at the university website:

<https://etu.ru/en/study/post-graduate-study/02.06.01-computer-and-information-sciences>

Programme curator: **Andrey Tumarkin**

Tel.: **+7-812-346-47-34**

E-mail: avtumarkin@etu.ru

Graduate Department: Department of Information Systems, Department of Computer Aided Design, Department of Automation and Control Processes, Department of Software Engineering and Computer Applications, Department of Computer Science and Engineering, Department of Information and Measurement Systems and Technology

Program purposes

Main objective of training is formation of profound theoretical knowledge and practical skills in the following areas: operations of information complexes, computer networks, creations of elements and devices of computer science and engineering on new physical and technical principles, methods of processing and accumulation of information, human machine interfaces, development of new mathematical methods and means of support of intellectual data handling, information and automated systems of design and control in application to different data domains.

Field of professional activity

The field of professional activity includes spheres of science, technique, technology and pedagogics that envelope set of tasks of Computer Science and Engineering direction, including development of theory, creation, implementation and maintenance of perspective computer systems, networks and complexes, mathematical support and software.

Objects of professional activity

Objects of professional activity are: computers, complexes, systems and networks; software of computer aids and automated systems (programs, program complexes and systems); mathematical, information, technical, linguistic, program, ergonomic, organizational and legal support of automated information, computing, projecting and controlling systems; high-performance computation and supercomputer equipment; technologies of development and design of computer aids and software products.

Features of the curriculum

The curriculum includes mastering of modern theoretical questions, practical training, doing of laboratory practical works on modern and unique equipment, conducting research in the form of classroom occupations and in the form of independent work. The central place in training of graduate students is research and preparation and defense of thesis, preparation of PhD thesis under the leadership of outstanding scientists participating in research projects in relevant areas of basic and applied researches, that allows to create at graduate students ability to work in research team, to generate new ideas and also to show skill of independent research. In the course of research graduate students acquire skills of search and analysis of scientific and technical information, learn current problems of development of science and technology, acquire skills of setting research problems, representation, approbation and protection of results of researches. Special attention is paid to training of compilation of reviews, reports and preparation of publications, implementations of results of researches.

Specializations within this programme

System analysis, control and information processing

Elements and devices of an ADP equipment and management systems

Automation and control of technological processes and productions

Mathematical and software of computers, complexes and computer networks

Systems of design automation

Computers, complexes and computer networks

Mathematical simulation, numerical methods and complexes of programs

Geoinformatics