Verification and Testing of Hardware and Software Components of Telecommunication Systems

National Research Tomsk State University

Language of study: **Russian**
Mode of study: **full-time**
Duration: **2 years**
Availability of free education: **no**
Price: **223 700 RUB per year**

Programme webpage at the university website: http://tsu.ru/education/magistratura/magisterskie_programmy.php

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The programme offers training of qualified specialists in telecommunications, communication, and also transfer, reception and processing of information. Such professionals possess:

- Profound knowledge and understanding of computerized systems of information processing and transfer, programming methods including elements of parallel programming, of verification, validation and testing of hardware and software telecommunication systems components;
- Skills to design software including data- and knowledge bases, to analyze computer system safety, to design, improve and verify logical designs, to create and test telecommunication protocols.
- Ability to speak English fluently, given English is the international language for computer technology and beyond.

Education

Students search for necessary data on the situation in discrete systems analysis and synthesis, including testing and verification of software of hardware components in a telecommunication system, patent and marketing information in literature, scientific periodicals and the Internet.

They also participate in academic seminars at the faculty, in the laboratory including their internship; students present talks at seminars and conferences. They also learn to design original software for synthesis and analysis of telecommunication systems components, to draw service documentation, research project reports and to write scientific articles.

Internships

Internships are performed at the premises of the Department of IT in Discrete Systems Research, "Testing of systems and software" lab of the Faculty of Radio Physics (TSU), the Faculty of Radio Physics Student business incubator, Siberian Physical-Technical Institute, and also of companies which plan to employ a student.

Specializations within this programme