09.06.01 Informatics and Computer Technologies

Systems Analysis, Management and Information Processing

Program objective

to give grounds for advanced theoretical and practical skills and deeper understanding of systems analysis of various complex technological systems.

Research and professional activities

- development and application of methods of analysis, modeling, optimization, information processing, decision making for complex technological systems;
- computing machines, complexes and networks;
- software for computers and automated systems;
- mathematical, information, technical, software, ergonomic, organizational, legal support for automated, information, computational, design and management systems;
- high-performance computations and super-computer hardware;
- software and hardware development technologies.

A central role in the educational process is given to research activities and writing a dissertation under guidance and supervision of prominent scientists and practitioners. PhD students participate in fundamental and applied research projects that helps to develop skills of team work, new ideas generation and independent research. While researching, PhD students sharpen their abilities to search and analyze relevant research data and information and further present their research results in a form of research review, paper or report, and trying their best to put such results into practice.

Practical training and professional opportunities

- Research and Design Institute of Power Engineering (Recipient of an Order of Lenin)
- Dukhov All-Russian Research Institute of Automation
- Russian Federal Nuclear Center – All-Russian Research Institute of Experimental Physics
- National Research Center “Kurchatov Institute”
- Russian technological and IT companies (1C, Yandex)