

09.03.01 Informatics and Computer Engineering

Secure Computer Systems and Software Development

Program objective

to train highly qualified specialists with deep theoretical and practical skills in computer science including methods of Big data analysis, machine learning, information security, software development and etc.

Competitive advantages

- an opportunity to gain crucial competencies for further professional development in the digital era:
 - critical and algorithmic thinking
 - team work as a researcher or an analyst
 - deep mathematical skills
 - data analysis skills
 - skills of interpreting the obtained research or empirical results
- practical training of use of modern design, hardware and software tools for computer systems (MEPhI laboratory “Digital circuitry”)

Research and professional activities

- development of computer systems and networks, automated systems for information processing and management
- design of digital equipment on the FPGA

- development of system and application software
- comprehensive analysis of the security of information systems
- methods for damaging software elimination tools

Practical training and employment opportunities

- State Atomic Energy Corporation ROSATOM companies
- Concern Sistemprom
- Concern “Almaz – Antey”
- public and private IT-companies