**Abstract of the programme**

**09.03.01 Computer science and computer engineering**

1. **Area of training**: 09.03.01 Computer science and computer engineering.

Programme title: The software of computer aids and the automated systems

2. **Summary of the programme**: training bachelors in the field of information technologies.

Training course duration: 4 years of full-time education.

Qualification: bachelor.

Basic department: the department of applied mathematics of OTI NRNU MEPhI.

3. **Characteristic of graduates’ professional activity field and objects** includes electronic computers, systems and networks; automated information processing and management systems; automated design and information products support systems; automated systems software; high-performance computer systems and technologies.

**Graduates’ professional activity objects** are electronic computers, complexes, systems and networks; automated information processing and management systems; automated design and information support systems of industrial products’ life cycle; software of computer aids and automated systems (programs, program complexes and systems); mathematical, information, technical, organizational and legal support of these systems.

4. **Target programmes**: “Innovation development program for Rosatom State Corporation

5. **Summary of the curriculum**: the curriculum includes the disciplines helping to receive the extended physics and mathematics education, general training in the field of information technologies and programming. The main special disciplines are electrical engineering, electronics and circuit design; computer and peripherals; programming; networks and telecommunications; databases; information security; technology of software development; a series of disciplines on various programming technologies. The curriculum gives proper consideration to the requirements imposed on the graduates at the basic enterprise of Mayak Production Association, FSUE (Rosatom State Corporation).

6. **Practical training**: the programme provides for the following two types of practical training

1) educational practice (labor intensity is 80 hours) in the 4th term along with theoretical training;

2) industrial practice ( four weeks duration) after the 6th and 8th terms at the following enterprises: FSUE “Mayak” Production Association (Rosatom State Corporation), USDI "VNIPIET" (Rosatom State Corporation), FSUE Southern Urals Biophysics Institute (FMBA RF), “Uralskiye kabelnye seti – Ozersk” Ltd, Ozersk district administration and others.