

## **Electronics and Nanoelectronics (11.04.04)**

### Nanoelectronics, Spintronics and Photonics

#### **Program objective:**

to train specialists for modeling, designing production technologies and promising and special materials for micro- and nanoelectronics, nanophotonics, organic electronics.

#### **Curriculum features:**

- Methods of theoretical and experimental research, mathematical modeling, design, technology of micro- and nanoelectronics devices for various functional purposes;
- Use of CAD systems, engineering analysis software systems, digital prototype development technologies based on digital three-dimensional product models that allow to simulate any object characteristics in any operating conditions.

#### **Career opportunities**

- positions of a process engineer, structural engineer or research associate for research centers in Russia and abroad, and factories of mass production of electronic components;
- project management in high technology sectors;
- research design and production units involved in the development and design of new equipment and technologies, introduction and application of new technologies.