

14.05.02 Nuclear Power Plants Design and Operation

Program objective

to train engineers for design and operation of nuclear power plants; thermal and nuclear power production, transformation and utilization, including their constituent control, protection, management with nuclear and radiation safety compliance.

Program alumni will be able to solve a wide range of tasks for development, design, testing, commissioning, maintenance, operation and repair of equipment and systems for nuclear and thermal power plants.

Areas of research activity:

- theoretical and experimental study of thermohydraulic processes occurring in the reactor core and heat exchange equipment of nuclear power plants;
- safety substantiation of promising nuclear power plants of various types;
- study of the thermophysical properties of various coolants and structural materials.

Practical training and future employment

Production companies, R&D centers of the nuclear industry and related industries.