

14.04.01 Nuclear Power and Thermophysics

"Prospective nuclear reactors and energy plants"

The program is aimed at training specialists in the field of designing advanced nuclear installations, conducting thermophysical and neutron-physical calculations and experiments, and radiation safety. Studying, students are given the opportunity to choose one of the profiles: radiation safety and ecology; neutronics of nuclear reactors; thermal physics of nuclear power plants. The preparation of masters is carried out in close connection with the leading organizations of the State Corporation Rosatom, the National Research Center "Kurchatov Institute" and institutes of the Russian Academy of Sciences.

As the Rosatom State Corporation has ambitious plans for the development and implementation of advanced nuclear power plants, it is necessary to train specialists who must possess competencies in the field of thermal-hydraulic calculations, thermophysical properties and physics of nuclear reactors. So the students specialize in these fields. Graduates of the program are in high demand in science-intensive industries, where technological processes with complex innovative solutions are introduced and improved.