

04.03.02 Materials Chemistry, Physics and Mechanics

Nanomaterials for Biology and Medicine

Program objective

to train professionals with deep knowledge of chemical, physical, mechanical and pharmaceutical properties of substances, which let graduates be able to develop new nanomaterials for biology, medicine (in particular, for modern original medication production).

Competitive advantage

modern technological and analytical equipment and cleanrooms, that allow students to combine education and practical research training.

Research and professional activities

- Design of medications based on traditional technologies and nanotechnologies
- Development of nanomaterials for hyperthermia
- Research of bioequivalence and interchangeability of medications
- Development of radiopharmaceuticals for diagnostics and therapy

Practical training and future employment opportunities

- State Atomic Energy Corporation "Rosatom" companies
- Leipunskiy Institute of Physics and Power Engineering
- Karpov Institute of Physical Chemistry
- Tsyba Federal Research Medical Center "Radiology Research Center" of the Ministry of Health of Russia
- Corporations of Caluga pharmaceutical cluster (AstraZeneca PLC, Obninsk chemical and pharmaceutical company, Hemofarm Ltd., Bion Company, Berahim LLC, Kalugapharmacy, SLL "CHEMFARMKOMPLEKT", Berlin-Chemie AG/Menarini Group, PHARM-SYNTHESIS, Nearmedic Pharma, PharmVILAR)