

# Pharmaceutical chemistry and pharmacognosy (Physical chemistry)

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Degree or qualification is awarded: **Researcher. Lecturer-researcher**

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **325 000 rubles per year**

Programme curator: **Irina N. Zavestovskaya**

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**Training department:** Institute of engineering physics for biomedicine

**Training objectives:** training of highest qualified personnel with deep understanding of chemical, physical, biological and pharmaceutical properties of compounds, as well as natural sources of such compounds, which would be able to create and develop new pharmaceuticals and processes of production of them with full spectrum of documentation and quality control and diagnostics of pharmaceuticals and radiopharmaceuticals, based on traditional and biotechnologies.

**Professional domain:** chemical and pharmaceutical science and process research and development, project management and teaching in chemical, (radio)pharmaceutical and other areas of pharmaceutical universe. Graduates would work in research centers, pharmaceutical companies, educational institutions and clinical labs.

**Professional objects:** broad spectrum of biologically active compounds research, medicinal chemistry, process development of (radio)pharmaceuticals, quality control issues, compounds for the radiotherapy and diagnostics, semiconductor nanocrystals for the same purposes, magnetic materials for hyperthermic therapy, "smart" materials etc. Graduates are capable of conducting fundamental research, informational, commercial and legal support of these research in the domain of APIs development and process and natural products research.

**Features of educational program:** the program ensures all the competences required by national educational standard.

**Advantages of the program:** "dual" training system – educational studies combined with the internship in the company, clinic or institute. The chair is endowed with modern technological and analytical equipment and classified "clean" chamber, and this is optimal for the professional development and scientific research.

**Companies and institutions for the internship and employment:**

"Kalugapharmacia", "Tsyb Medical Radiological center", "Obninsk Chemical and Pharmaceutical company", "Chemopharm LLC" "BION LLC", "Berachim LLC", "Chimpharmkomplekt LLC", "Berlin-Pharma LLC", "PharmSynthet JCS", "PharmVILAR LLC" etc.

**Specializations within this programme**