

Biophysics

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Degree or qualification is awarded: **Bachelor's diploma**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **no**

Price: **129000**

Programme webpage at the university website:

https://eng.mephi.ru/content/public/uploads/files/Program/ba/physbio/03.03.02_biophysics.pdf

Programme curator: **Irina Zavestovskaya**

Tel.:

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03.03.02 Physics Biophysics

Department: "Medical Physics"

Program objectiveprepare specialists with fundamental knowledge in physics and mathematics, integrated with biology, chemistry, genetic engineering and bioinformatics, medicine, food industry, ecology, agrotechnology, biocosmic research

Curriculum features:

- Biophysics, biochemistry and medical biophysics
- Physical chemistry of polymers and biopolymers
- Molecular biology of the cell
- Bioinformatics•Radiation ecology
- Mathematical modeling in biophysics, biology, oncology

Research areas:

- Physics of the processes in biological and molecular chemical systems
- Development of the protection and rehabilitation systems for the materials and organisms from industrial pollution
- Physicochemical principles of the regulation of living systems
- Patterns of aging at the micro and macro levels
- New medications and methods of effective theranostics of socially significant diseases
- Biophysics, genetics and epigenetics of diseases

Practical training and future employment opportunities

- Institute of Bioorganic Chemistry of the Russian Academy of Sciences
- Institute for Biochemical Physics of the Russian Academy of Sciences
- Federal Research and Clinical Center of Physical-chemical Medicine
- Blokhin National Cancer Research Center of Oncology
- National Medical Research Center for Radiology
- National Research Center "Kurchatov Institute"
- Burnasyan Federal Medical Biophysical Center
- State Atomic Energy Corporation ROSATOM companies

Specializations within this programme