

Experimental radiology

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Degree or qualification is awarded: **Master's degree**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **96 262 rubles per semester**

Programme curator: **Liudmila N. Komarova**

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Basic department: "Department of biotechnology"

The aim of the program: training in the field of fundamentals of humanitarian, social, economic, mathematical and natural science knowledge; obtaining a higher vocational education, accessing the graduate to work successfully in the field of activity, opportunities with biology, radiobiology, chemistry, medicine, have general cultural and professional competencies that contribute to its social mobility and sustainability in the labor market.

The area of professional activity: the study of wildlife and its laws, the use of biological systems for economic and medical purposes, protection of Nature. The sphere of professional activity of graduates is: research and development organizations of the nuclear industry; general educational institutions and educational institutions of vocational education.

The objects of professional activity: biological systems of various levels of organization; the processes of their life and evolution, biological, bioengineering, biomedical, nature conservation technologies, biological examination and monitoring, assessment and restoration of territorial biological resources.

Features of the curriculum: The master's program "Experimental Radiology" is aimed at an in-depth study of the effect of ionizing radiation on biological objects of varying degrees of complexity. In addition, the program is practice-oriented, aimed at training competent and competitive researchers in the fields of radiobiology, radiology and biomedicine. The master's program includes a study of the mechanisms and basic laws of the biological effect of ionizing radiation at the molecular, cellular, organ and organism levels. An important feature of the training of highly qualified scientific personnel in the educational program is close cooperation with the largest research centers of the city of Obninsk: MRNTs im. A.F. Tsyba - a branch of the Federal State Budgetary Institution "Federal Medical Center named after P.A. Herzen »Ministry of Health of Russia, All-Russian Research Institute of Radiology and Agroecology. In their structures there is an experimental base for working with students, conducting fundamental and applied research. Classes with students are conducted by leading scientists of these centers.

The list of enterprises for practice and employment of graduates: Institute of Neurosurgery of N.N. Burdenko, Russian National Cancer Research Center of N.N. Blokhin, All-Russian Research Institute of Radiology and Agroecology Russian Scientific Center of Medical Radiology, and others.

Specializations within this programme