

Biology (Taught in English)

National Research Lobachevsky State University of Nizhni Novgorod (Lobachevsky University)

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

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **200 000 RUB per year**

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This programme is in the high priority scientific discipline of Neurobiology. The Neurobiology programme is geared towards those who are interested in studying the principles of brain functionality.

This field is highly relevant and offers tremendous perspectives in modern science. This is connected with the growth of medical applications: development in the area of prostheses, creation of systems for pharmacological testing, expansion of possibilities of research-instrument equipment.

Technical applications include: development of smart navigation systems and control of electro-mechanical devices. The Neurobiology programme includes a wide range of the fundamental issues and applied tasks in the area of biology, medicine, physics, and robotics.

Graduates of the program will be highly-qualified specialists; possessing cutting edge knowledge and methods in the areas of neurobiology and biophysics, and will be able to work at medical instrumentation enterprises, pharmaceutical companies, biomedical laboratories, scientific-research centres, universities and medical centres.

Specializations within this programme

Neurobiology

The programme is aimed at training of highly qualified specialists having relevant level of knowledge in the sphere of fundamental and applied neurobiology, abilities for analytical thinking, necessary skills in the formulation and solution of theoretical and practical problems in neurodynamics, neurobiology and related sciences.

Master's degree students study at the UNN Department of Neurotechnology, Nizhny Novgorod Neuro-Science Center (NNNSC), including laboratories of optical neuroimaging, cellular electrophysiology, cellular technologies, molecular neurobiology equipped with modern facilities, such as the complex of confocal and two-photon microscopy based on Zeiss LSM-510 NLO DuoScan microscope, the complex of visualized patch-clamp registration on the basis of Olympus BX51WI microscope and NeuroSMQ RSI fast fluorescent camera, MED64 multielectrode field potentials recording system, etc. Students have the opportunity to undergo internship at leading scientific research institutes of the country. Prominent Master's degree students have the opportunity to undergo internship in laboratories of foreign scientific centers.