



MINISTRY SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION
Federal State Autonomous Educational Institution of Higher Education
"Far Eastern Federal University"
(FEFU)

ANNOTATION
BASIC PROFESSIONAL EDUCATIONAL PROGRAM OF HIGHER EDUCATION

Bachelor's program 06.03.01 Biology

Name of the educational program "Biomedicine (in English)"

Vladivostok 2023

The basic professional educational program of higher education (hereinafter referred to as OPEP HE) is a system of documents developed and approved by a higher education institution taking into account the requirements of the labor market based on the educational standard.

The focus of OBOP HE is focused on:

- area(s) of professional activity and (or) area(s) of professional activity of graduates on which the program is focused;
- type(s) of tasks and tasks of professional activity of graduates;
- objects of professional activity of graduates or area(s) of knowledge (if necessary).

The focus of the program is determined by the acquisition of basic ideas about the diversity of biological objects, the importance of biodiversity for the sustainability of the biosphere; formation of knowledge about the principles of structural and functional organization of biological objects, biophysical and biochemical foundations of metabolic processes and molecular mechanisms of life, basic laws and modern achievements in the field of genetics, genomics, proteomics, biotechnology, genetic engineering, nanobiotechnology, molecular modeling; mastering methods of observation, description, identification, classification, cultivation of biological objects, basic physiological methods of analysis and assessment of the state of living systems, modern experimental methods of working with biological objects in field and laboratory conditions; acquiring skills to work with modern equipment.

Qualification assigned to graduates of the educational program: bachelor.

Labor intensity of OPOP HE in the area of training: 240 z.e.

Duration of the educational program: 4 years.

Goals and objectives of the main professional educational program:

The purpose of the educational program: to train highly qualified specialists with comprehensive modern knowledge about the functioning of the human body, about normality and pathology, about the causes of the development of various diseases, ways to prevent and overcome them, capable of planning and conducting fundamental and applied research in the field of biomedicine, human and animal physiology, immunology and pharmacology

List of professional standards:

- Professional standard "Teacher of additional education for children and adults", approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated May 5, 2018 N 298n (registered by the Ministry of Justice of the Russian Federation on August 28, 2018, registration N 52016)
- Professional standard "Industrial pharmacy specialist in the field of drug research", approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated May 22, 2017 N 432n (registered by the Ministry of Justice of the Russian Federation on July 27, 2017, registration N 47554)
- Professional standard "Industrial pharmacy specialist in the field of quality

control of medicines", approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated May 22, 2017 N 431n (registered by the Ministry of Justice of the Russian Federation on July 10, 2017, registration N 47346)

OPOP HE is implemented: 4 years in a foreign language (English).

Specific features of OBOP VO:

Biomedicine is a field related to the study of the human body, diseases, and the search for new treatment methods. Due to the fact that the limit of effectiveness of the existing paradigm in medicine has been reached, the development of biomedical research as the technological basis of modern medical science and healthcare is today a key direction of state policy in the field of national well-being.

The relevance of the program is determined by the fact that it is aimed at training personnel to work in globally developing areas such as biomedicine, biotechnology and bioengineering. These scientific areas are at the intersection of several disciplines, improving the use of genetic engineering methods.

The advantages of the program lie in the fundamental general biological training of students and the interdisciplinary approach. The main training courses include General Biology, Developmental Biology, Medical Parasitology, Histology, Physiology with basic anatomy, Pathology with basic nosology, Genetics, Biochemistry, Microbiology, Molecular pharmacology, Mechanisms of normal diseases, Clinical diagnostic methods, Molecular cell biology, Molecular methods and cell biology, Biomedical cell technologies, Cell and tissue engineering, Bioengineering, Genetic engineering, Molecular biotechnology, Medical biotechnology, etc. Particular attention is paid to mathematics, physics, chemistry, computational biology and bioinformatics - disciplines that are extremely important for successful work in the field of knowledge-intensive technologies.

The acquired knowledge, skills and practical skills will open up employment prospects for graduates in biotechnology companies, medical institutions, research institutes and other organizations related to biology and medicine.

Partners and experts involved in the implementation of the program:

Center for Marine Biology named after. A.V. Zhirmunsky FEB RAS, Pacific Oceanological Institute FEB RAS, Center for Biodiversity of Terrestrial Biota FEB RAS, Pacific Institute of Bioorganic Chemistry FEB RAS, Federal State Budgetary Institution of Science FGBNU Medical Genetic Research Center named after. N.P. Bochkova" (FGBNU "MGSC") of the Ministry of Science and Higher Education of the Russian Federation and the Russian Academy of Sciences (RAN), Federal State Budgetary Institution of Science Institute of Cytology of the Russian Academy of Sciences.

Disciplines (modules), practices:

General biology, Developmental biology, Medical parasitology, Histology, Physiology with basic anatomy, Pathology with basic nosology, Genetics, Biochemistry, Microbiology, Molecular pharmacology, Mechanisms of normal diseases, Clinical

diagnostic methods, Molecular cell biology, Methods of molecular and cellular biology, Biomedical cell technologies, Cellular and tissue engineering, Bioengineering, Genetic engineering, Molecular biotechnology, Medical biotechnology, Educational practice. Introductory practice, Educational practice. Research work (Obtaining primary skills in research work), Industrial practice. Medicine development practice, Industrial practice. Research work, industrial practice. Pre-graduation practice, including research work, etc.- ensure the formation of universal, general professional and professional competencies in accordance with the Federal State Educational Standard for Higher Education and professional standards and employer requirements.

FEFU is implementing an organizational model of inclusive education - ensuring equal access to education for all students, taking into account the various special educational needs and individual capabilities of students.

FEFU forms its educational system in accordance with its specifics, traditions, strategic priorities for the development of the Far East and the mission of the university in the Asia-Pacific region, the global educational space, and represents the value-normative, methodological, methodological and technological basis for organizing educational activities at the present stage of development university.

Head of the educational program V.V. Kumeiko

