

# Bioorganic Chemistry

Far Eastern Federal University

Degree or qualification is awarded: **Candidate of Sciences**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **320 000 rub per year**

Programme webpage at the university website:

<https://www.dvfu.ru/upload/medialibrary/a06/%D0%9F%D0%B5%D1%80%D0%B5%D1%87%D0%B5%D0%BD%D1%8C%20%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%20%D0%B0%D1%81%D0%BF%D0%B8%D1%80%D0%B0%D0%BD%D1%82%D1%83%D1%80%D1%8B,%20%D0%BE%D0%B1%D1%8A%D1%8F%D0%B2%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D1%85%20%D0%B2%20%D0%BD%D0%B0%D0%B1%D0%BE%D1%80%202020%20%D0%B3%D0%BE%D0%B4%D0%B0.pdf>

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The purpose of the educational program is to acquire the level of competencies necessary for the implementation of professional activities and preparation for the defense of a scientific and qualifying work (dissertation) for the degree of candidate of sciences.

The main objectives of the educational program:

1. To carry out the formation of the curriculum (its basic and variable parts) in accordance with the requirements of the Federal State Educational Standard and the requests of employers.
2. To provide teaching of disciplines in the form of author's courses according to programs drawn up on the basis of research by scientific schools of the Far Eastern Branch of the Russian Academy of Sciences and FEFU, taking into account regional and professional specifics.
3. To carry out personnel, informational and material support of the educational program in accordance with the requirements of the Federal State Educational Standard, using the resources of both the FEFU and TIBOCh FEB RAS.
4. Provide for the widespread use of active and interactive forms of education aimed at training highly qualified specialists in bioorganic chemistry with the necessary competencies.

The area of professional activity of graduates who have mastered the postgraduate program includes the spheres of science, science-intensive technologies and chemical education, covering a set of tasks in theoretical and applied chemistry (in accordance with the focus of training), as well as related natural sciences.

The objects of professional activity of graduates who have mastered the postgraduate program are new substances, chemical processes and general patterns of their course, scientific tasks of an interdisciplinary nature. New natural substances of various classes: low molecular weight and biopolymers, the relationship of their chemical structure and biological activity, scientific problems of an interdisciplinary nature.

The types of professional activities for which the graduates who have mastered the postgraduate program are preparing: research activities in the field of chemistry and related sciences; teaching activities in the field of chemistry and related sciences.

The postgraduate program is aimed at mastering all types of professional activities for which the graduate is preparing.

The choice of the program was determined in accordance with the needs of the Far East region and was conditioned

by the presence of an academic institute of chemistry, a recognized leader in the field of bioorganic chemistry - TIBOC FEB RAS, the existence of scientific schools in the field of bioorganic chemistry and related sciences. It is also associated with the high demand for graduates of the highest qualifications in the field of research of natural substances and their synthetic analogues - potential drugs, as specialists for research laboratories and the pharmaceutical industry.

The disciplines of the variable part ensure the formation of general professional and professional competencies of the graduate, taking into account modern requirements for scientific and qualification works and the requests of employers who represent the following organizations: Pacific Institute of Bioorganic Chemistry FEB RAS, Institute of Marine Biology FEB RAS, Far Eastern Federal University, Center for Quality Control of Medicines, Forensic Department of the Ministry of Internal Affairs of the Russian Federation, Laboratory of the Ministry of Emergency Situations, Pharmaceutical Plant (Khabarovsk), Laboratory of Forensic Medical Examination, etc.

The employment prospects of graduates are high, they are in demand in academic institutes, in the departments of chemistry of universities, in expert, environmental, diagnostic laboratories and at various enterprises.

### **Specializations within this programme**