

# Biotechnology of Food Products and Biological Active Substances

## Far Eastern Federal University

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

Language of study: **Russian**

Mode of study: **full-time, part-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **320 000 rub per year (full-time) / 160 000 rub per year (part-time)**

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 development of new biological active substances is one of the priority directions of economic development, as a result, qualified researchers in the field of biotechnology are in demand in the modern labor market. For the integration of graduate students into the scientific environment, agreements on joint cooperation were concluded with the Federal State Budgetary Scientific Institution "Federal Research Center of Agrobiotechnology of the Far East named after A.K. Seagulls" dated February 3, 2012, FSBSI" National Scientific Center for Marine Biology named after A.V. Zhirmunsky" dated 30.08.2018, No. 12-09-68.

Disciplines were chosen as variable disciplines, the study of which allows to fully master general professional and professional competencies, taking into account modern requirements for scientific and qualification works and the requests of employers, which can be specialized research institutes, higher educational institutions, food production enterprises, food additives, biological active substances.

Graduates of the program can continue their research activities as researchers and teaching activities in specialized higher educational institutions.

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 qualification "Researcher. Researcher-teacher".

The main goal is achieved by solving the following tasks:

- providing a system of high-quality training in this area and the implementation of the Federal State Educational Standard of Higher Education, taking into account the development of science, culture, economy, technology, technology and the social sphere;
- ensuring systematic interaction of the teaching staff with employers, the business community to develop professional, social and personal competencies and assess the quality of postgraduate students' training;

- the formation and development on this basis of postgraduate students of professional knowledge, skills and abilities in accordance with the requirements of FOS HE in this area of training;

- improving the knowledge of a foreign language, focused on professional activities; - improvement of philosophical education, including one oriented towards professional activity.

Qualification - Researcher. Research instructor.

The normative term of development is 4 years (full-time), 5 years (correspondence).

The complexity of the educational program is 240 credit units.

The area of professional activity of graduates who have mastered the postgraduate program includes:

research, production and use of enzymes, viruses, microorganisms, cell cultures of animals and plants, products of their biosynthesis and biotransformation;

creation of technologies for obtaining new types of products, including products obtained using microbiological synthesis, biocatalysis, genetic engineering and nanobiotechnology;

development of scientific and technical documentation and technological regulations for the production of biotechnological products;

implementation of biotechnological processes and industries in accordance with the observance of legislative and regulatory national and international acts;

organization and implementation of quality control of raw materials, intermediate products and finished products;

solving complex problems in the field of environmental protection, aimed at ensuring the rational use of natural resources and the protection of environmental objects;

development of scientific foundations, creation and implementation of energy- and resource-saving, environmentally friendly technologies in the production of basic inorganic substances, products of basic and fine organic synthesis, polymeric materials, products of oil, gas and solid fuels, microbiological synthesis, medicines and food products;

development of methods for handling industrial and household waste and secondary raw materials;

ensuring the environmental safety of industrial production and facilities;

implementation of sustainable development and environmental quality management, including environmental management methods;

pedagogical activity in institutions of the system of higher and secondary vocational education.

## **Specializations within this programme**