

Processes and Devices of Chemical Technology

Far Eastern Federal University

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

Language of study: **Russian**

Mode of study: **full-time**

Duration: **3 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%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>

Programme curator: **Artem Grachev**

Tel.: **+74232652424 (#2206)**

E-mail: interadmission@dvfu.ru

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 qualification work (dissertation) for the degree of candidate of sciences.

A graduate student should be prepared to solve the following tasks: conduct research in the development of new technological processes for obtaining substances and materials, separation of multicomponent mixtures, isolation and purification of target products, be able to calculate the main characteristics of a chemical technological process and choose a rational scheme for its implementation, be ready to organize and conduct fundamental and applied scientific research in the field of chemical technology.

The objects of professional activity of graduates who have mastered the postgraduate program are: chemicals and materials; methods and devices for determining the composition and properties of substances and materials; equipment, technological processes and industrial systems for obtaining substances, materials, products, as well as systems for their control and regulation; software for modeling chemical-technological processes.

The types of professional activities for which graduates who have mastered the postgraduate program are prepared: research activities in the field of chemical technology; teaching activity in educational programs of higher education. The postgraduate program is aimed at mastering all types of professional activities for which the graduate is preparing.

Training of specialists is carried out, first of all, taking into account the uniqueness of the geographical position of the Far East, the development of enterprises in the chemical-technological, petrochemical directions and the resulting need for specialists.

The base department of chemical and resource-saving technologies is a unit that prepares highly qualified specialists in the field of training 06/18/01 Chemical technology, profile "Processes and devices of chemical technologies", who have knowledge and are able to conduct research in the field of creation, implementation and operation of production of basic inorganic substances, building materials, products of basic and fine organic synthesis, polymeric materials, products of oil, gas and solid fuel processing, energy-rich materials and products based on them; physical and chemical methods of material processing.

The training of graduate students and the choice of disciplines of the variable part are due to the fact that the graduate has the necessary knowledge, can conduct research in the development of new technological processes for obtaining substances and materials, separation of multicomponent mixtures, isolation and purification of target products, be able to calculate the main characteristics of the chemical technological process and to choose a rational

scheme for its implementation, was ready to organize and conduct fundamental and applied scientific research in the field of chemical technologies.

Graduates of this direction are in demand and have employment opportunities in academic and industry research institutes, higher educational institutions, industrial and other organizations

Specializations within this programme