

Construction and Operation of Oil and Gas Pipelines, Bases and Storages

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

- research, forecasting and modeling of hydrodynamic and gas-dynamic processes during the production, transportation and storage of oil, gas and oil products, construction of engineering structures for various purposes;
- research and development of innovative solutions to improve the technical level of production, transportation and storage of oil and gas, construction of engineering structures;
- research, scientific substantiation of the principles and methods of ensuring industrial safety and environmental friendliness in the search, exploration, production, transportation and storage of oil and gas, construction of engineering structures;
- pedagogical activity for training personnel with higher education.

The objects of professional activity of graduates who have mastered the postgraduate program are:

- geological and production facilities for subsoil development;
- geotechnology of subsoil development, equipment and technical systems;
- methods, techniques and technologies to ensure safe and environmentally friendly transportation and storage of oil, gas and oil products;
- methods and systems for designing hydrocarbon transport and storage systems;
- software tools for studying, modeling the processes of production, transportation and storage of hydrocarbons, design of equipment and technical systems, processing and analysis of research results.

The types of professional activities for which graduates who have mastered the postgraduate program are preparing:

- research activities in the field of oil and gas business, substantiation of directions for its safe and efficient industrial implementation, design of equipment and creation of technologies for the production, transportation and

storage of hydrocarbons, construction of engineering structures, development of a set of measures to protect subsoil and the environment.

- teaching activities in educational programs of higher education.

The need for highly qualified scientific and pedagogical personnel in this specialty is high. In 5 universities of the Far Eastern region, training programs are being implemented in the direction of the bachelor's degree 03/21/01 Oil and gas business, while the training of masters in this direction is carried out only at FEFU, but there is no specialized postgraduate study in the Far East. The need for graduates of specialized postgraduate studies, trained to conduct scientific and pedagogical activities, is at least 20 people.

The oil and gas industry in the Far East, represented by large subdivisions of leading industry companies: PJSC AK Transneft, PJSC Gazprom, PJSC Rosneft, is experiencing a shortage of highly qualified local personnel trained taking into account the understanding of regional requirements and conditions for the construction and operation of facilities, able to carry out research at sites, to optimize technological schemes in accordance with the regional realities of production.

When solving problems in the oil and gas complex, one should take into account the current situation in the industry. The oil and gas complex of the Far East is just being formed, which requires taking into account not only regional characteristics, but also the involvement of modern technologies and the level of science and technology in this area of knowledge.

Oil and gas pipelines and storage facilities are being created in difficult mining, geological and climatic conditions, which requires research on the development and implementation of new technologies, both during construction and operation. Large energy costs in the transportation of oil and gas require research on energy conservation and optimization of energy supply to facilities. The ongoing gasification of the Far East poses new tasks for the use of liquefied natural gas, which requires research taking into account the regional specifics associated with a vast territory, small population, and severe climatic conditions.

For the purpose of in-depth study of the program in the areas of the profile "Construction and operation of oil and gas pipelines, bases and storage facilities", postgraduate students will be specialized in the relevant field, which will provide a higher level of specialist training.

The importance of the educational program is determined by the proximity of the Far Eastern Federal University to large educational and research and production centers in the Asia-Pacific region, which makes training specialists in this area attractive for the economies of these countries.

Graduates of the specialty "Construction and operation of oil and gas pipelines, bases and storages" are in demand by large companies involved in the creation of the oil and gas complex of the Far East: PJSC "AK" Transneft ", PJSC" Gazprom ", PJSC" Rosneft ", NK" Alliance ", LLC SUEK, etc. ., design and research organizations: FEB RAS, PJSC "Giprotruboprovod"; as teachers of oil and gas profile at universities.

Specializations within this programme