

Hydraulic machinery

Siberian Federal University

Degree or qualification is awarded: **Bachelor**

Language of study: **Russian**

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

Duration: **4 years**

Availability of free education: **no**

Price: **170 622 RUB per year**

Programme webpage at the university website:

http://edu.sfu-kras.ru/sites/edu.sfu-kras.ru/files/oop/annotations/AN_15.03.021.pdf

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Place of education:

- **Sayano-Shushensky branch of SFU**

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The aim of the program is to create the conditions for acquiring the necessary level of knowledge, skills, experience, as well as the formation of competencies for the implementation of professional activities in the relevant field.

Main program tasks:

- training graduates to conduct research in solving complex engineering problems;
- training graduates for design, production and technological activities in the construction of new hydraulic works and other construction projects, as well as reconstruction and maintenance of existing hydraulic works;
- training graduates for experimental research activities in the relevant field using standard design and research automation packages;
- training graduates for installation-setup works and service and operational activities in the relevant field, including installation, testing, commissioning of structures, engineering systems and equipment of construction projects;
- training graduates for organisation and management activities, including preparation of tender and contract documentation in the field of energy machines and mechanisms equipment, monitoring the performance of the terms of contracts and civil law contracts by suppliers and contractors;
- training graduates for self-study and continuous professional self-improvement.

The presented objectives take into account the requirements of the educational standard, the criteria of Association for Engineering Education of Russia (AEER) (comply with international standards EUR-ACE and FEANI), and actual demand of hydropower enterprises and the construction complex (RusHydro and its branches, Norilsk Nickel, etc.).

The program objectives are aimed at achieving the goals of training and education in the program Hydraulic Engineering, developed by the Sayano-Shushensky affiliated branch of Siberian Federal University together with Sayano-Shushenskaya HPP on the basis of the educational standard taking into account the requirements of professional standards and the labour market.

Competitive advantages for a graduate: graduates have the ability to professional and social adaptation, work

independently and as part of a team, organize the work of performers and make managerial decisions. At the same time, graduates have the ability to understand and analyze the social, economic and environmental consequences of their professional activities. Many employers are included in the educational process, teach the disciplines of the curriculum in their areas. With this training format, students acquire the competencies that employers require.

Specializations within this programme