

12.03.01

Equipment Engineering

Degree: *bachelor*

Duration of training: *4 years — intramural*

5 years — extramural

Form of training: *intramural, extramural*

Language of instruction: *Russian*

Accreditation: *state*

Program description:

You will receive training in the field of design, programming, operation of various instruments and sensors;

Experience in hydroacoustics and non-destructive testing;

Skills of work on marine (geological exploration, condition monitoring of underwater pipelines and engineering structures) and land (monitoring of pipelines, vibrations, noise, etc.) expeditions.

Basic courses:

Engineering and Computer Graphics,
Information Technology,
Metrology, Standardization and Measuring Tools

Special courses:

Fundamentals of Devices and Systems Design,
Design and Technology of Devices Manufacture,
Methods and Technologies of Non-destructive Testing, Simulation Modeling of Acoustic Systems

Research areas:

During studies, students gain practical skills by participating in development of innovative ultrasonic and hydroacoustic equipment, and on sea expeditions and experiments.

There are a design bureau “Acoustics” and a unique scientific unit “Imitation-natural hydroacoustic complex” at the department.

Graduates of the program work

- in the oil and gas companies;
- on marine geological survey expeditions;
- on oil drilling platforms carrying out the hydrographic (surveying) works;
- on scientific and research sea expeditions;
- in development and production of various electronic equipment departments;
- in the departments that carry out quality control of materials and industrial products

Contacts of the program director:

Associate Professor, Pivnev Petr Petrovich

tel. 8- (8634) 68-18-90, \$

tel. 8-918-517-48-44,

e-mail: pivnevpp@sfedu.ru; pivnev@mail.ru

