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Vice-Rector for Geology & Earth and  
Environmental Sciences

*Here you will build a strong foundation for  
successful international career in  
geosciences and IT.*



Program  
DIGITAL TECHNOLOGIES IN APPLIED GEOPHYSICS

Duration  
2 YEARS

Mode of study  
COMPATIBLE WITH WORK AND OTHER COMMITMENTS

Language of instruction  
ENGLISH

Areas of study  
EARTH SCIENCES, INFORMATION TECHNOLOGY,  
ENGINEERING STUDIES

Entrance examination



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**MASTER'S PROGRAM  
SIBERIAN SCHOOL  
OF GEOSCIENCES**

# **DIGITAL TECHNOLOGIES IN APPLIED GEOPHYSICS**



[www.eng.istu.edu](http://www.eng.istu.edu)

# ABOUT PROGRAM

The program is aimed at training specialists capable of solving the most complex problems of Earth exploration, mineral prospecting, and environmental control using geophysical methods based on the most modern digital technologies, advanced hardware and approaches to processing big geodata.

The main value of the program lies in combining advanced theoretical knowledge with practical skills and real experience in the most in-demand methods of applied geophysical research, as well as, in developing competencies in digital technologies, such as GIS systems, machine learning, and unmanned technologies.



## PROGRAM BENEFITS

**Interdisciplinarity.** The program combines knowledge and skills in geophysics, environmental geochemistry, robotics, computer science, and geospatial data analysis to enable graduates to successfully solve current problems in applied geosciences.

**Relevance.** Graduates of the program will not only meet the demands of the labour markets of developed economies, but also stimulate regional progress.

**Practical orientation.** During your studies, you will solve real cases and take part in international research that will create your job-winning portfolio for future employers.

### COURSES:

- ✓ Fundamentals of Geochemistry;
- ✓ Engineering Geology and Surveying;
- ✓ Applied Geophysics;
- ✓ Nuclear Geophysics Data Processing;
- ✓ Unmanned Aerial Systems in Geology and Geophysics;
- ✓ Mining-Geological GIS Technologies, etc.

## CAREER OPPORTUNITIES

The acquired knowledge, skills and experience make it possible for graduates to find employment in any part of the world, both in countries with mineral resource economies, such as Russia, Canada, Australia, etc., and in countries where geophysical methods are used in agriculture, environmental quality assurance, construction (many European countries, New Zealand and others).

Graduates will be able to immediately solve practical problems and have the necessary proven experience, which ensures their competitiveness in the labour market.

