



**Olga
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D.Sc.
Head of the Department of Geoecology

*Here you will build a strong foundation for
successful international career in environ-
mental sciences and engineering*



Program
ENVIRONMENTAL SCIENCES AND ENGINEERING

Duration
2 YEARS

Mode of study
COMPATIBLE WITH WORK AND OTHER COMMIT-
MENTS

Language of instruction
ENGLISH

Areas of study
EARTH SCIENCES, ENVIRONMENTAL SCIENCES,
ENGINEERING STUDIES

Entrance examination
TEST



**SIBERIAN
SCHOOL OF
GEOSCIENCES**

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

ENVIRONMENTAL SCIENCES AND ENGINEERING



IRKUTSK



POLYTECH

www.eng.istu.edu

ABOUT PROGRAM

The program is aimed at training specialists who are able to work in global markets both as a researcher and engineer, who have deep knowledge and practical skills in studying the state of the environment of complex and unique natural and anthropogenic geosystems and are able to ensure their sustainable economic development.

During their studies, students will gain a fundamental understanding of the processes of the emergence and development of geosystems under the influence of a combination of natural and anthropogenic factors. Students will master the basic methods and technologies used to study and monitor their condition, gain real experience in solving relevant scientific and practical problems of assessing the impact of economic activity on the environment.



PROGRAM BENEFITS

Practical orientation. Students will gain significant experience in performing geoecological studies of the Baikal Region's terrestrial and aquatic ecosystems.

Interdisciplinarity. Students will get acquainted with a wide range of disciplines and technologies that together make it possible to solve the problems of geoecological research and engineering, including geochemical, geodetic, geophysical, engineering and geological GIS technologies. As a result, the graduate will be able to solve various problems and organize complex projects.

Relevance. Graduates will be able to effectively conduct scientific research, develop projects, and deal with complex environmental challenges in environmental management, ensuring a balance between economic development and environmental conservation in both Russian and many foreign markets.

COURSES:

- Hydrogeology;
- Environmental Geochemistry;
- Remote Sensing Techniques;
- Fundamentals of GIS technologies;
- Practices of Nature Management Systems in Different Countries;
- Sustainable Development Practices, etc.

CAREER OPPORTUNITIES

The Russian and foreign labour markets offer a wide range of vacancies in the mining industry, government geological services, environmental organizations, research institutes and universities for specialists in Environmental Sciences and Engineering, with an emphasis on the use of modern digital and analytical methods in solving environmental problems.

Gaining experience in geoecological research using the best modern practices and acquiring the SSG complex of geodetic, geophysical, drilling, chemical analysis and other world-class technologies will guarantee that graduates will be competitive and in demand in the coming years.

