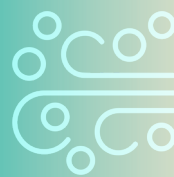




St Petersburg
University

COLD REGION ENVIRONMENT LANDSCAPES INTEGRATED SCIENCE (CORELIS)

Level of education:	Master programme
Type of instruction:	Full-time
Duration:	2 years
Language of instruction:	English



BENEFITS OF THE PROGRAMME

- The educational programme is aimed at training specialists who are capable of independently carrying out theoretical and applied research in ecological, hydro-meteorological, paleogeographical, landscape, pedological and nature management processes in Polar Regions of the Earth (The Arctic, Antarctic, Permafrost zone and the upland territories).
- Study areas include "Ecology and Environmental Management", as well as "Hydrometeorology", "Geography" and "Soil science".
- The programme is fully delivered in English. During the first two semesters of training in Russia, leading experts of St Petersburg University, partner universities and scientific research institutes are involved in teaching. Students have an opportunity to spend their third semester on exchange in a partner university in Germany or other countries.
- Students participate in expeditions to Polar Regions in course of their field practice. For example, in the previous years, student research practice was held on the base of Lammi Biological Station of Helsinki University in winter and international field stations such as the Russian scientific centre on Svalbard archipelago (part of the Arctic and Antarctic research institute), Lena River delta, Yamal and Kola peninsulas in summer.
- Students of the programme regularly take part in international conferences, seminars and workshops for young scientists.



KEY SKILLS

After completing this programme, the students

- understand the evolution of species, patterns of biodiversity, pedology;
- independently carry out: measurements, analysis, interpretation and data processing;
- understand the role of changing climate within the biogeochemical cycles of environmental processes;
- have advanced knowledge of the structure, functioning and vulnerability of Polar and upland ecosystems;
- are knowledgeable of modern methods of ecological research, regulation, risk assessment and constructing mathematical models of the ecosystem;
- understand the interaction of atmosphere and hydrosphere;
- have knowledge and skills in field sampling strategy, working with special scientific equipment for analytical procedures in biology and geoecology;
- have gained advanced knowledge of the structure of environmental systems and effects of basic cryogenic processes, types and dynamics of ground ices, glaciers and water bodies;
- can evaluate anthropogenic impact on Polar, upland, and periglacial ecosystems;
- have advanced knowledge of the cold regions quaternary climate and environmental history;
- have knowledge of the main sources and methods to obtain paleoenvironmental information.

CAREER OPPORTUNITIES

Programme graduates can apply their expertise in the areas of scientific research, industrial operations, planning, education and administration related to the use of geoecological, hydrometeorological, paleogeographical and pedagogical methods in the study of Polar and mountain regions.

PROGRAMME OVERVIEW:

[Read more >](#)

CONTACT US

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