

## Brief Description of the Program

### Jobs

Biologists study wildlife and its laws, use biological systems for economic and medical purposes; they are engaged in biological expertise and monitoring, assessment and restoration of territorial biological resources and the natural environment.

### Educational process

It is in the first year of studies that students are intensively immersed in the profession. They study biological systems of various levels of organization; the processes of their vital activity and evolution; master biological, bioengineering, biomedical and nature-oriented technologies.

Thematic discussions, master classes conducted by leading specialists, participation in international competitions, communication with potential employers form professional competencies of future biologists.

### Disciplines

- ✓ Modern problems of biology
- ✓ Modern problems of ecology
- ✓ Selected chapters of vertebrate zoology
- ✓ Planning and organization of biological research
- ✓ Paleozoology
- ✓ Ethology
- ✓ History of biology
- ✓ Philosophy of science
- ✓ Research seminar
- ✓ Foreign language for professional purposes
- ✓ Project management: methods and technologies

### Practical Training

Every year, students undergo practical training. This includes various field practices in which students become familiar with the diversity of living organisms and master environmental protection technologies. Students go to field practices to the Volga or to the North Caucasus. In the second year practical training is conducted in biological centers and laboratories.

### Career

The profession of a biologist has many facets and is in demand in various areas. Its tasks are as follows: carrying out activities to protect nature (protection of the human environment from pollution, rational use of natural resources, conservation of natural monuments: reserves, parks); biomonitoring and assessment of the state of the Earth's bioresources (flora and fauna); participation in the development of projects for the restoration of rare and protected biological objects; monitoring the processes of biological production (for example, medical biological products, agricultural additives), conducting various studies to improve conditions in agriculture, forestry and industrial economy; monitoring compliance with the rules and regulations in the field of nature conservation. Graduates of the program will be able to get a job in research institutes and laboratories in different areas of biology; in reserves and national parks; higher and secondary educational

institutions; museums and departments of nature; hygiene and epidemiology centers; zoological shops; zoos; organizations for environmental protection and environmental management; forestry department; fish and game organizations.