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Study at ILIA STATE UNIVERSITY

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Your Amazing Life Experience Starts Here



Master of Applied Genetics

The Master's Degree Program in Applied Genetics will train students to an international standard, incorporating current biomolecular technology. Quite simply, use of biotechnology, in particular molecular genetics applications, is now ubiquitous in commerce and research. Examples of how this technology is currently being deployed include:

- Pathogen detection: Polymerase chain reaction (PCR) based procedures are routinely used in aquatic and terrestrial systems to detect human, plant, and animal pathogens. Industry has recognized the power of this technology, and now sells kits for PCR detection of human pathogens from food and environmental samples—Salmonella, Listeria, Campylobacter, and pathogenic E. coli, among others (e.g., <http://www.bio-rad.com/en-us/category/real-time-pcr-kits>).
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- Forensics: Molecular methods also have utility in monitoring the food supply, in the realm of consumer protection. Quite aside from pathogen detection, provenance and authenticity of a food item can be ascertained. In one instance, researchers used DNA-based evidence to demonstrate that roe being sold as beluga caviar from Caspian sturgeon was either 1) not beluga caviar or 2) was genuine, but illegally harvested from protected species (Desalle and Birstein, 1996).

Through a combination of lectures, laboratory- and field-based training, students will learn not just concepts, but actual practice and procedures of applied genetics. The materials taught in this program will prepare students for careers in agricultural, industrial, or biomedical genetics applications, as well as molecular ecology and evolution.

PROGRAM

Master of Applied Genetics

ENTRY REQUIREMENTS:

- BA degree diploma or equivalent
- English language certificate (equivalent to B2 level)
- Subject-related oral exam
- Interview

APPLICATION DOCUMENTS:

- A degree diploma or equivalent
- English language certificate (equivalent to B2 level)
- CV
- Motivation letter
- Passport
- Photo

Detailed information on admission can be found at <https://ISU.ge/Apply-Now>

Program Duration	2 years – 4 semesters
Awarded Academic Degree	Master of Applied Genetics
Language Requirement	Min. B2
Tuition Fee	\$ 3000