Department of Molecular Genetic Engineering

051-200-7503 http://mge.donga.ac.kr

Introduction of the Department

The department of genetic engineering is applied to the advanced plant biotechnology based on diverse and new life phenomenon at the molecular level. We studies solutions to the food and environmental problems expected to deepen in the future, development of functional food that can promote human health and development of environmentally friendly alternative energy.
It is a field of study in which human life can be improved qualitatively and quantitatively through leading-edge science and technology. Based on the foundation and application knowledge of life sciences, the department aims to cultivate competent and creative talents capable of contributing to the development of biotechnology, one of the top three technologies of the 21st century, along with nanotechnology and information science.

Main Subject

General Chemistry, General Biology, Basic Microbiology and Experiments, Basic Life Sciences and Practice
General Biochemistry, Molecular Biology, Plant Physiology, Cell Biology

Career after Graduation

Quality management workers, seed workers, plant protection workers, HACCP (food hygiene / hazard education course), etc.

Q&A

Q. What kind of program do you have for freshmen when I enter the Department of Molecular Genetics?
When entering the school as a freshman, an orientation of the college is conducted before the Entrance Ceremony. At the beginning of the course, there is an orientation of the Department followed by the workshops with all professors and seniors. Through this, you will be able to receive an introduction and vision of the Department as a whole, and receive "My Portfolio" through the orientation of the Department. As a result, you will receive guidance and explanation for your college life management and career development through the whole university life.

Q. What will happen to career or employment after graduation from Molecular Genetic Engineering?
I can answer that the Department of Molecular Genetics has a very high employment rate (70.4% in 2013, 78.2% in 2014) and a graduate school entrance rate (25% in 2013 and 33% in 2014). Those of you who want to enter the research field are encouraged to enter Graduate School. Students can work in biotechnology-related companies and institutions even after graduating from undergraduate, and we have actually produced many such students. If you think that you do not fit well, you will have a double major or minor system. If you use it well, you will be able to work in any job you want.

Specialty Program

Global Challenger: Student-led Overseas Challenge Program
Career Camp and Workshop
Laboratory Circulation: Experience in graduate school major and laboratory in advance

Department of Applied Biotechnology

051-200-7595 http://appbio.donga.ac.kr

Introduction of the Department

Applied biotechnology is a study of interest in making the environment most suitable for human activity focusing on interrelationships between organisms, life phenomena and natural environments. Biotechnology has been attracting attention because it can be developed into biotechnology industry by application of biotechnology, which is rapidly emerging in the recent years.

Main Subject

General Biology, Basic Microbiology and Experiment, General Chemistry, Basic Life Science and Experiment Microbiology, Industrial Entomology, Molecular Plant Pathology and Experiments, Pesticide Science and Experiments, Plant Fungal Pathology and Experiments, Insect Biotechnology

Career after Graduation

1. Researchers in biotechnology: researchers at universities, hospitals, national and public research institutes, and corporate research institutes
2. Government agencies related to biotechnology: professions related to plant quarantine specific for the department
3. Pharmaceutical Quality Management Sector: an expert in the field of pharmaceutical quality control based on biotechnology
4. Operation of Biotechnology-Related Companies: direct operation of companies related to the life industry
5. Biological Control Related Field: pesticide and anti-pest expert with certificate acquisition
6. Seed Related Field: experts in the field of seedling-related field along with acquiring a certificate by operating a program for seeding articles
7. Environment-Related Fields: experts in the field of environment related to acquisition of the Environmental Engineer Certification
8. Financial Institutions Related to the Life Industry: support experts for the life industry in Nonghyup

Q&A

Q. Can a lot of students participate in the global program?
International internships, exchange students, global capstone design and global bio-challenger program are supported by LINC and CK business support. The Global Bio Challenger Program will be available from the first year. Overseas internships, global capstone design and exchange students are mainly for 2nd and 3rd graders who have completed four semesters. There are three students participating in the Global Bio Challenger Program in the United States during winter vacation in 2014 school year. 8 overseas internships, 4 global capstone designers and 6 exchange students will travel abroad. This figure means that at least 25% of students in grades 2-3 participate in the global program during the winter break, except for those students who are currently resident abroad as exchange students.

Specialty Program

1. General Assembly: Professors and students of the Department of Applied Biotechnology gather each semester to share their ideas with each other and share the experiences of graduates, internships and exchange students.
2. Field Trip: The Department of Applied Biotechnology visits the related industries and national research institutes each semester with professors. It is a good opportunity to broaden the experience and knowledge of related majors by observing major biotechnology companies and national and public research institutes in the southeastern region together with the professors.