

Excellent Career Prospects

Perspectives

Graduates of Insect Biotechnology and Bioresources are trained to work on all levels of agricultural production and pest control, medical biotechnology, bioinformatics, food production, business management and marketing.

A great number of employment opportunities are offered in the agricultural industry (seeds, fertilizer, pesticides), the areas of biomedicine, pharmacy, food biotechnology and the healthcare sector. Furthermore, producers and professional organizations, research institutes, consultancies, development services and international organizations are potential employers.



Foto: J. Gerhardt

Giessen and its University

The City of Giessen and its university are located in the heart of Germany in the charming valley of the River Lahn. It is the city with the highest density of students in Germany. Both the city and the region offer a wide range of cultural and leisure-time activities. Giessen is a university town, conference center and cultural destination all in one.

Take your Chance

Admission Requirements

To participate in the international Master Degree Program in *Insect Biotechnology and Bioresources*, students must have successfully completed a Bachelor of Science (180 Credits) or an equivalent degree with profound knowledge of organismal biology, microbiology, molecular biology, genetics, organic chemistry and biostatistics. Besides students need very good English language skills.

Application

The program starts each winter semester (October). The application deadline is June 15th.
www.uni-giessen.de/studium/bewerbung
International students have to apply via uni-assist.
www.uni-assist.de

Contact & Information

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Medicine
and
Pharmacy

Plant
Protection

Industrial Food
and
Biotechnology

Insect Biotechnology & Bioresources

International Master of Science

Insects - The Future Bioresource



With more than a million scientifically described species, insects form the largest group of organisms on earth. As an emerging interdisciplinary research area, insect biotechnology explores insects as well as insect-associated micro- and macroorganisms as newly emerging bioresources for medicine, plant protection, pharmacy, industrial food and biotechnology.

International and Interdisciplinary Program

The Justus Liebig University Giessen has set up the international Master's Degree in *Insect Biotechnology and Bioresources* to qualify experts who bring with them not just specialist knowledge but also multidisciplinary qualifications. Students from across the globe can experience a combination of profession-oriented training and scientific research in the fields of entomology, natural product chemistry, agriculture, food and pharmaceutical technology, and bioprocess engineering. The course is taught in English.

Individually Tailored Study Program

The two-year degree program has a modular structure, which makes it possible for students to finish quickly while structuring their studies as efficiently and flexibly as possible. Using the European Credit Transfer System (ECTS), students' achievements and coursework in the field of Insect Biotechnology can be transferred to domestic and international universities.

The Master's study program Insect Biotechnology and Bioresources provides a broad interdisciplinary composition of the areas biotechnology, plant protection and process engineering. The faculty of Agricultural Sciences, Nutritional Sciences and Environmental Management offers a wide-ranging module catalog with a number of specialist modules. Within this study program, students have the opportunity to also attend modules of the faculty of Biology and Chemistry at JLU Giessen and the faculty of Life Science Engineering of the University of Applied Sciences (Technische Hochschule Mittelhessen).



Structure of the Master Program



Core Modules

The course consists of eight mandatory core modules:

- Bioprocess Engineering I
- Biostatistics and Experimental Design
- Entomology I
- Entomology II
- Food Technology
- Integrated Pest Management
- Natural Product Chemistry
- Natural Product Discovery Platforms

Individual Profile

The eight profile modules can be selected from a wide range of specialized modules. The remaining 24 credits are accomplished by the Master's thesis. The high degree of choice allows students to tailor the profile of their course according to their individual preferences.