GREENING THE ECONOMY

Humankind uses about 85 million barrels of crude oil every day – in transport, all kinds of plastics, as part of a whole range of products from cars to mobile phones, in our clothes and shoes, even in cosmetics. Everything is based on a resource that is running out. What's more, the world's population continues to grow and needs to be fed, while land and resources are becoming increasingly scarce. Biobased products, new production processes, new consumption patterns and a way for aligning society, nature and economy are required for a sustainable future. To master the transition towards a sustainable and circular bioeconomy, the world needs progressive thinkers and pioneers to develop and implement new scientific knowledge and technical skills.

The University of Hohenheim has developed the M.Sc. **Bioeconomy** program to train the kind of scientists needed to make this transition a success.



AT A GLANCE

Degree	Master of Science
Language	English
Credits	120
Period of study	4 semesters
Available places	unlimited
Admission requirements	• Bachelor's degree (180 credits) or equivalent in the field of Agricultural, Natural or Business/Economics Sciences with an average grade of at least 3,0 • English language skills (e.g. TOEFL 90, IELTS 6,5)
Application deadline	June 15



Fotos: @ Universität Hohenheim

Contact

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UNIVERSITY OF HOHENHEIM



CHANGE THE SYSTEM. SHAPE THE FUTURE.

Bioeconomy

Master of Science



Master of Science

BIOECONOMY

This interdisciplinary degree program is offered jointly by Hohenheim's three faculties of Agricultural Sciences, Natural Sciences and Business, Economics and Social Sciences.

One of the strengths of this Master is that graduates are able to develop systems-thinking skills, conduct a systematic analysis of entire biobased value chains and webs and understand these from each of the following perspectives:

- companies that focus on new biobased resources, processes and products
- established producers seeking to introduce renewable resources, biotechnological processes and their corresponding products to the market
- stakeholders attempting to gauge the need and acceptance of such products and
- organizations that support the development of biobased value chains, e.g. through research and advisory services.

COURSE DESIGN

The two-year Master's program offers you the opportunity to gain fundamental knowledge of the concept of the bioeconomy. The **first year** begins with introductory modules. This is followed by compulsory modules covering a range of topics from the analysis of the properties of biobased resources to the economic analysis and optimisation of production and processing across the entire biobased value chain and web. In the **second year**, you have the opportunity to design your own curriculum by selecting elective modules. You can choose whether you want to study as a generalist or specialize in an area of your choice. Various **profiles** are offered for orientation. A Master's thesis, which is written in the fourth semester, concludes your studies.

PERSPECTIVES

- Professional positions in production, project management, marketing as well as in research & development departments of companies making products based on biological resources and biotechnological processes (e.g. food industry, biomanufacturing, production of biobased consumables and other goods, bioenergy sector)
- Research institutions in the public sector
- Start-ups
- Organizations supporting biobased value chains (incl. consulting companies and organizations)
- Ministeries, agencies and international organizations
- Supporting the bioeconomy (incl. international development organizations)



AN INNOVATIVE CURRICULUM

1st Sem.	Inter- and Transdiciplinary Research Approaches	Properties of Biobased Resources and Products	Agricultural Production of Biobased Resources*	Fundamentals of Economics*	Natural Science Concepts*
2nd Sem.	Sustainable Industrial Processes	Farm Economics and Value Chain Development	Economic Policy Analysis	Financial Management	Projects in Bioeconomic Research
3rd Sem.	Elective modules **Profiles:** 1) Policy Analysis, 2) Sustainable Biomass Production Systems, 3) Biomass processing & biorefinery, 4) Sustainability Assessment, 5) Innovation & Entrepreneurship, 6) Transforming Food Systems, 7) Data Science & Artificial Intelligence				
4th Sem.	Master's thesis				

* These modules impart basic knowledge in the respective academic field. Depending on your individual academic background, you may replace ONE of these by an additional elective module.

Compulsory modules
Elective modules