



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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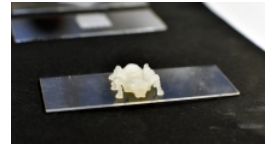
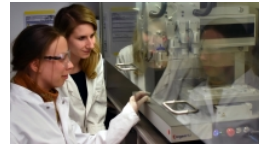
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Master's degree



Biofabrication

University of Bayreuth • Bayreuth



Overview

Degree	Master of Science Biofabrication
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English (100%). Obligatory exams to achieve full admission can be taken either in German or English.
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	Application periods: 1 March to 15 June (winter semester) 1 September to 30 November (summer semester)
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The internationally oriented Master's programme Biofabrication is interdisciplinary in nature, representing an engineering curriculum at the intersection of technology, chemistry, material sciences, biology, and medicine. The programme is highly practice-oriented, offering you the opportunity to hone both your theoretical and practical skills.</p> <p>It covers the main topics of biofabrication, biomaterials, advanced modules, transferable skills, and a final Master's thesis.</p> <p>A detailed module handbook is provided for an overview of content and the qualification objectives of all modules, as well as the credits to be acquired as a measure of the workload and a description of the type of assessment components required for the award of credits.</p> <p>Module overview Main topic – Biomaterials:</p> <ul style="list-style-type: none">Biomaterials

- Medical Implant Engineering
- Three Core Elective Modules

Main topic – Biofabrication:

- Biofabrication
- Cell Biology
- Three Core Elective Modules

Advanced Modules:

- Three advanced modules OR one international advanced module at an international partner university
- Summer school

Transferable Skills:

- Scientific Working
- Innovation Management

Course Details

Course organisation

The Master's programme in [Biofabrication](#) is organised in two parts, i.e. a general part and a specialisation part. In the first year of study, the modules of the main topics of biofabrication, biomaterials and transferable skills are scheduled. In the second year of study, the advanced modules as well as the Master's thesis are scheduled.

The course types include lectures, seminars, and practical lab work. The courses in biofabrication are held in the winter semester, while the courses in biomaterials are held in the summer semester. The courses of the transferable skills and advanced modules are held in both the winter and summer semester, depending on the respective module and course.

A detailed study plan is provided for an overview of all courses within the programme.

Get a deeper understanding of biofabrication upfront by enrolling in the University of Bayreuth's Massive Open Online Course (MOOC) "Biomaterials and Biofabrication: Design, Engineering and Innovation". The free audit track is a great way to get to know the lecturer and the research at the University of Bayreuth. On top of that, you can earn a certificate after passing an exam (paid verified track). Click [here](#) to enrol in the Biofabrication MOOC.

» [PDF Download](#)

International elements

- International guest lecturers
- Integrated study abroad unit(s)

Integrated study abroad unit(s)

The programme offers the opportunity to spend an International Advanced Module as third semester for a study research project at an international partner university in Australia, Thailand, France, the United States, the Netherlands, or Spain. More offers to be added in the future.

International guest lecturers take part in the summer school "Biofabrication".

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	In Germany, students at all higher education institutions pay a semester contribution. This payment (University of Bayreuth: 142.85 EUR per semester) has nothing to do with tuition fees; rather, it covers your contributions to student services and the student government. At the University of Bayreuth (which combines the campus in Bayreuth and our Faculty VII located in Kulmbach), it includes a "semester ticket" that allows you to use public transport in the region.
Costs of living	The cost of living in Germany, e.g. accommodation, food, clothing and recreational activities, is about average compared to other European countries. Living expenses are significantly lower than in countries like Denmark, Luxembourg or Switzerland, but they are rather high compared to countries like Poland, the Czech Republic or Italy. Compared to other large German cities, such as Munich, Berlin or Hamburg, Bayreuth's low cost of living and affordable housing make the city and the region particularly attractive to young people and families. The DAAD website will tell you what living expenses to expect in Germany: https://www.daad.de/deutschland/nach-deutschland/voraussetzungen/en/9198-financing/ .
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	<p>Scholarships for international students: International students and doctoral researchers have the opportunity to apply to the International Office for a study grant. Limited funding from the State of Bavaria and the DAAD is available for this purpose. The application deadline for the winter semester is 31 August and for the summer semester 28 February. All grants can be awarded for up to two semesters.</p> <p>Unfortunately, first-semester students cannot be funded, i.e. applications cannot be submitted until the second semester of study for funding starting in the third semester of study. Above all, academic achievements from the previous semester are decisive for the evaluation of the application.</p>

Requirements / Registration

Academic admission requirements	A university degree (or completed studies) in the Bachelor's programmes (requiring 180 ECTS points) Materials Science & Engineering or Engineering Science at the University of Bayreuth or an equivalent degree https://www.biofabrication.uni-bayreuth.de/en/application/index.html
Language requirements	Participants have to demonstrate evidence of a B2 level English language certificate according to the Common European Framework. The German language level should be at the A1 level.
Application deadline	Application periods: 1 March to 15 June (winter semester) 1 September to 30 November (summer semester)
Submit application to	Online application via CAMPUSonline. You can find further details here .

Services

Possibility of finding part-time employment

There are many ways for international students to earn money while they study, but there are some restrictions. For more detailed information, please visit the [DAAD website](#).

The [University of Bayreuth's Career Services team](#) provides a central interface between student and professional life. The team offers guidance and support to students of all subjects with regard to starting their [careers](#).

For information regarding the **Corona virus**, please visit our [website](#) and also see <https://www.daad.de/en/coronavirus/>.

Accommodation

Accommodation for students

Bayreuth and Kulmbach have a number of student dormitories (both private dormitories and dormitories offered by the Association for Student Affairs) and a vast array of private rooms available. Under no circumstances should you assume that you will be assigned a room in the student dormitories! You will need to actively search for a room on your own – either in a private dormitory or on the private market.

More information regarding accommodation for students is available here: <https://www.uni-bayreuth.de/en/studies/accomodation/index.html>. Please also read the [DAAD's information](#).

Accommodation for international guests

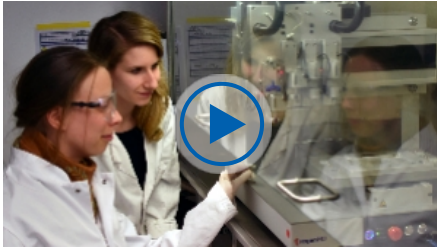
All other international guests are requested to register via the [Welcome Services Database \(WelSe\)](#).

Accommodation for short visits

For short visits, we recommend searching for accommodation on Airbnb. In addition, a limited number of apartments are available in the [Alexander von Humboldt Guest House](#).

Support for international students and doctoral candidates

- Welcome event
- Accompanying programme
- Specialist counselling
- Visa matters



Corporate video of the University of Bayreuth

It all begins with a dream – a search for knowledge and insights, important changes, every great idea. Welcome to the University of Bayreuth!

» more:

<https://www.youtube.com/watch?v=vWle6FHIR5k>

University of Bayreuth



The University of Bayreuth is one of the most successful young universities in Germany.

© University of Bayreuth

International, innovative, and interdisciplinary in research and teaching

Top-notch research, state-of-the-art teaching methods, international influences, diversity, and a springboard to a successful career – these are all things the University of Bayreuth stands for.

The University of Bayreuth is a dynamic campus university with currently about 13,000 students. Beyond the interdisciplinary research focus and excellence in teaching, the university has a clear vision of social responsibility and entrepreneurship. In the middle of **Kulmbach**, our new satellite campus unites the perspectives of natural science, economics, law, social sciences, and behavioural science in one place in a way that has not yet been seen in Germany.

We have a close network of strategically selected **international** research partners, and we have strategic partnerships with universities around the globe. A wide range of innovative BA, MA and PhD programmes as well as our international summer schools are **conducted in English**. There are presently around 1,770 international students from more than 100 countries on the Bayreuth and Kulmbach campuses. Focus areas in **research** include Nonlinear Dynamics, Polymer and Colloid Science, Molecular Biosciences, Ecology and Environmental

Sciences, New Materials, African Studies, High Pressure and High Temperature Research, Cultural Encounters and Transcultural Processes, Innovation and Consumer Protection, Food and Health Sciences, Energy Research and Energy Technology, Governance and Responsibility.

Our university has an outstanding staff-to-student ratio. Our high performance levels, multidisciplinary collaborations and scientific excellence result in [high-ranking positions](#). In the 2021 THE ranking of “475 under 50”, the University of Bayreuth once again achieved a top position among the best universities in Germany. We have proven expertise in campus and curriculum [internationalisation](#), which is confirmed by the results of the extended internationalisation audit conducted by the German Rectors’ Conference, a close and successful project cooperation with the German Academic Exchange Service (DAAD) and a number of Alexander von Humboldt Awards for our international management and [service](#).

Welcome to our one-of-a-kind [campus](#) in Bavaria!

It is both the heart of our university and a source of inspiration. It is where friendships are made, collaboration is initiated, and ideas are conceived, ensuring that our university remains a beacon of innovation. Scientific exchange profits tremendously from the wide variety of disciplines our communicative campus brings together.

Coronavirus

Be sure that there is a **comprehensive and high-quality range of courses** in all degree programmes that will enable students to successfully begin and continue their studies – on campus or online.



University location

Welcome to Bavaria!

Seventy-six thousand people from **145 nations** chose the city of Bayreuth as their new home, and those numbers are steadily rising. Because of its 13,000 students, Bayreuth is the third-**youngest city in Germany**. Living here means not getting stuck in traffic jams every morning. The short distances in Bayreuth allow you to leave your car at home and to walk or ride your bike to work and to campus.

Career & Networking

The [Welcome Service](#) at the University of Bayreuth is here to assist you with any questions regarding living and [working](#) in the region of Bayreuth. The team of our International Office provides guidance and support for all international students, scholars, and their families before, during and after their stay at the University of Bayreuth. The aim is to ensure a quick, trouble-free and thus successful start as well as an unforgettable stay on our friendly campus in Bayreuth and Kulmbach.

A good climate for your entrepreneurial spirit

The University of Bayreuth takes its role as a regional motor of innovation very seriously. The [Office of Entrepreneurship & Innovation](#) was set up to help students gain [the necessary qualifications](#) in the area of entrepreneurial and innovative thinking and acting. In doing so, we nurture our students’ willingness and ability to start their own companies. Our [Adviser for Start-Ups](#) provides start-ups and prospective start-ups with confidential guidance and support. Strong **innovation and research** institutions combined with high-performance medium-sized companies make for a steady rise in workforce and a guarantee for job security.

Your new home away from home

Bayreuth and Kulmbach offer a fast variety of childcare services as well as affordable **living space**. Step outside your front door and enjoy the **recreational activities**. Scenic northern Bavaria is great for sports activities: cycling, hiking, mountain-climbing, canoeing, rafting, and skiing are all excellent ways to enrich your leisure time. However, if you do happen to crave the feel of a bigger city now and then, Nuremberg is only a one-hour train ride away and Munich is only two-and-a-half hours away. You can reach Berlin in four hours by car or bus and Leipzig in half that time.

Have a great start. We look forward to meeting you!

Contact

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Chair of Biomaterials

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🌐 Course website: <https://www.biofabrication.uni-bayreuth.de/en/index.html>

📘 <https://www.facebook.com/UniBayreuth/>

🐦 <https://twitter.com/unibt>

🌐 <https://de.linkedin.com/school/university-of-bayreuth/>

📷 <https://www.instagram.com/uni.bayreuth/>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

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GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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