



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Medical and Pharmaceutical Biotechnology (MSc)

Hochschule Fresenius - University of Applied Sciences • Idstein

### Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	All courses are held in English.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Applications are possible all year round.
Tuition fees per semester in EUR	4,500 EUR
Additional information on tuition fees	750 EUR per month + 70 EUR per month (non-EU) 595 EUR registration fee
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>If you hold a Bachelor's degree in pharmaceuticals, chemistry, or biology and wish to further your knowledge to take on specialist and management roles in the pharmaceutical industry, our Medical and Pharmaceutical Biotechnology Master's programme is the ideal fit for you.</p> <p>This four-semester programme is designed to provide you with extensive knowledge and valuable skills essential for the biopharmaceutical industry. The programme covers the entire value chain, from molecular structures and properties to the basic principles of good manufacturing practice (GMP) and regulatory affairs in the closely regulated environment of the pharmaceutical industry.</p> <p>By the end of the programme, you'll have developed a deep understanding of the intricacies of the biopharmaceutical industry and the skills necessary to excel in your career. You'll be equipped with knowledge of the latest developments in the field, including emerging technologies and innovative techniques.</p> <p>Overall, the Medical and Pharmaceutical Biotechnology Master's programme is an excellent choice</p>

for those seeking to advance their careers in the pharmaceutical industry. With a comprehensive curriculum and practical experience, you'll be well prepared to take on specialist and management positions in this exciting and rapidly evolving field.

## Course Details

### Course organisation

This Master's programme is designed to provide you with an in-depth education in all relevant skills for a career in the field of pharmaceutical biotechnology. In order to achieve this, your classes will focus on three main areas spread over four semesters.

Coursework includes:

#### Pharmaceutical industry

- Introduction to the pharmaceutical industry
- Sterile process and plant engineering
- Good manufacturing practice
- Upstream processing and bioseparation
- Downstream processing
- Qualification of technical equipment
- Pharmaceutical process validation

#### Scientific methods

- Biopharmaceutical analysis (e.g. ELISA, chromatography, mass spectrometry)
- Pharmacology and toxicology of biopharmaceuticals
- Laboratory work
- Data science for pharmaceutical biotechnology
- Biochemical process engineering

#### Management

- Project management
- Lean management and six sigma
- Professional communication and presentation

Since this programme has a practical approach, you'll have ample opportunities to engage in hands-on work in our state-of-the-art laboratories.

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

## Costs / Funding

Tuition fees per semester in EUR

4,500 EUR

Additional information on tuition fees

750 EUR per month + 70 EUR per month (non-EU)  
595 EUR registration fee

Semester contribution

Included in the tuition fees

Funding opportunities within the university

No

## Requirements / Registration

Academic admission requirements

To be eligible for admission to the full-time Master's programme in Pharmaceutical Biotechnology (MSc) at Hochschule Fresenius, you must meet the following admission requirements:

### Bachelor's Degree

You must hold a Bachelor's degree in a chemistry- or biology-related field of study, such as pharmacy, chemistry, biology, biochemistry, or biotechnology, with at least 180 credit points.

### Language Proficiency

As the programme is conducted entirely in English, you must also have English language skills at level B2 or higher of the European Framework of Reference for Languages.

### International Students

If you come from a country outside the European Union or the European Economic Area, it's important to note that you'll usually require a visa to study in Germany. The visa application process can take several months, so we recommend that you begin the process as early as possible.

Language requirements

Applicants must provide proof of their English skills (level B2 – CEFR) through one of the following methods:

- TOEFL (minimum 80 points internet-based)
- IELTS (minimum 6.5)
- minimum 60 ECTS from an English-taught Bachelor's programme

Application deadline

Applications are possible all year round.

Submit application to

Please submit your application [here](#).

## Services

Career advisory service

Alumni & Corporate Relations offers our students many opportunities to improve their own career profile, to get in contact with business partners and alumni and supports them with finding an internship or a job.

Support for international students and doctoral candidates

- Welcome event
- Buddy programme

General services and support for international students and doctoral candidates

Our academic assistants support the students concerning all academic issues and organisational questions about their study programmes.

Our International Services help students organise their time abroad, whether it is a whole semester or just a few weeks.

The Competence Center Languages offers different language courses that our students can attend at no charge. For international students, we offer German courses.

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## Study in Germany – Hochschule Fresenius University of Applied Sciences

We are Hochschule Fresenius University of Applied Sciences. Since 1848, we have been training the next generation of specialists and managers. Our Bachelor's or Master's degree programmes, professional training, advanced education, or the completion of various certificate programmes will help you achieve your professional career dreams.

» more:

[https://www.youtube.com/watch?v=YDYTA2HK\\_sE](https://www.youtube.com/watch?v=YDYTA2HK_sE)

# Hochschule Fresenius - University of Applied Sciences



Hochschule Fresenius blends tradition with innovation. Digital transformation, demographic change or skills shortages: we know what makes people, societies and economies tick. We are constantly developing our study programmes to train the next generation of specialists and managers. Join us and help shape the future with your specialist skills, creativity, agility and empathy.

#### Reasons to study here:

- Total flexibility when choosing your location and model of study in Germany and our integrated semesters abroad
- Teaching is practical: Most of our lecturers work in their area of specialisation. Courses often also feature guest lectures to relate theory to practice.
- Personal attention: The group size has a maximum of 25 students. Our staff and lecturers will be happy to help you at all times.

#### Education

Fresenius University of Applied Sciences is one of the oldest private universities in Germany. It is state-recognised and has an academic and educational tradition stretching back about 170 years. The International Business School is a school of Fresenius University of Applied Sciences. Its English-taught programmes attract international students and offer globally-oriented students an international dimension in higher education. The resulting study groups provide exciting possibilities for students to build bridges across cultures at the start of their academic careers.

#### Accreditation

Hochschule Fresenius offers the highest quality of education. We possess institutional accreditation by The German Council of Science and Humanities in 2016 and the system accreditation since 2015. All study programmes passed the internal quality assurance, and they are fully accredited and state-recognised.



#### University location

Idstein is very centrally located in the Rhine-Main metropolitan area, allowing quick access (20-45 minutes) to major towns and cities in the area, including Wiesbaden, Mainz, and Frankfurt. The name Idstein first appeared in 1102. In the 13th century, Idstein became the main castle of the Counts of Nassau (one of them was King of the German Nation), and the town grew around the castle. Numerous picturesque, historic buildings bear witness to the town's past. Especially impressive are the dungeon of the old castle (Witches' Tower), the baroque residence castle (today Idstein's grammar school), the historic town hall, and the complete ensemble of half-timbered buildings in the old town.

# Contact

**Hochschule Fresenius - University of Applied Sciences**

Study advice

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🌐 Course website: <https://www.hs-fresenius.com/study-programs/medical-pharmaceutical-biotechnology-master/?crmid=aBcTjOcDbBkCksAa>

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

🐦 [https://twitter.com/HS\\_Fresenius](https://twitter.com/HS_Fresenius)

🌐 <https://www.linkedin.com/school/fresenius/>

📷 <https://www.instagram.com/hsfreseniuscampus>

📺 <https://www.youtube.com/user/HSFresenius>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://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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