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# Master's degree

**MSc Pharmaceutical Biotechnology**  
Hamburg University of Applied Sciences • Hamburg

## Overview

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<th><strong>Degree</strong></th>
<th>Master of Science in Pharmaceutical Biotechnology</th>
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<td><strong>Teaching language</strong></td>
<td>English</td>
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<tr>
<td><strong>Languages</strong></td>
<td>All the modules in the Master’s programme are in English. However, applicants must include a German A2 language certificate with their application, as lab work communication may be in German.</td>
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<tr>
<td><strong>Programme duration</strong></td>
<td>3 semesters</td>
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<tr>
<td><strong>Beginning</strong></td>
<td>Winter and summer semester</td>
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</table>
| **Application deadline** | Application periods:  
1 June - 15 July for the following winter semester  
1 December - 15 January for the following summer semester  
The online application is available on the university website during the application period only. See: [http://www.haw-hamburg.de/english](http://www.haw-hamburg.de/english). |
| **Tuition fees per semester in EUR** | None |
| **Combined Master’s degree / PhD programme** | No |
| **Joint degree / double degree programme** | No |

## Description/content

The programme is made up of the following modules:

1. Biopharmaceutical Engineering, with the course Pharmaceutical Engineering including labs
2. Purification Techniques, with lectures and a special course on this subject as well as a lecture on Good Manufacturing Practice
3. Pharmaceutical Technology, with the courses Pharmacology and Drug Development & Formulation
4. Cell Culture Systems, with lectures in Cell Culture Techniques and Hosts & Expression Systems as well as a special course in Cell Culture Techniques
5. Bioanalytics, with courses in Off-line and At-line Analytics, Biochemical Analytics and Bioassays
6. Bioprocess Automation, with lectures and a special course on this subject
7. Process Simulation, with lectures and practice in Analysis, Modelling & Simulation of Bioprocesses
8. Biopharmaceutical Research, with laboratory projects in Microbiology, Molecular Biology and Bioprocess Engineering and the research seminar
Course Details

Course organisation

The programme is designed so students can start in the winter or summer semester. Module 8 (laboratory projects and research seminar) is offered in the summer and the winter semester. Modules 1, 2, 3 and 5 with lectures including presentations of students, exercises, and separate lab courses are offered solely in the winter semester. Modules 4, 6, and 7 with lectures, exercises and separate lab courses are offered solely in the summer semester.

To find more detailed information on the modules and course content please click on the PDF link below.

» PDF Download

Types of assessment

Written examinations, seminar papers, reports, oral examinations, presentations

A Diploma supplement will be issued

Yes

Integrated internships

The Master’s programme does not include an integrated internship, but it is possible to complete your Master’s thesis in industry.

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

There is a semester contribution of approx. 336 EUR (as of September 2019). This fee provides you with a semester ticket for unlimited travel on Hamburg’s public transport system.

Costs of living

Hamburg is a relatively expensive city. Depending on your lifestyle, you should expect living costs of 700 to 900 EUR for rent, food, and other expenses.

Funding opportunities within the university

Yes

Description of the above-mentioned funding opportunities within the university

Students can apply for scholarships for academic excellence. They can also apply for an examination scholarship when they are in their final semester as a financial support while completing their Bachelor’s or Master’s theses. More information can be found here: http://www.haw-hamburg.de/english.
Requirements / Registration

Academic admission requirements
- Bachelor's degree (or equivalent) in the same or a similar field, with the academic grade equivalent to the German grade 2.5
- Graduate Record Examination (GRE) (for applicants from non-EU countries)
- Proof of English if it is not your first language (see language requirements)

Students who completed their school education outside Germany must have their certificates approved by uni-assist (http://www.uni-assist.de) BEFORE applying to the HAW Hamburg. The pre-registration documentation (VPD) from uni-assist must be sent with the application forms, etc., when applying to the HAW Hamburg. Please be advised that this process can take six to eight weeks, so please apply early.

For more information, see: http://www.haw-hamburg.de/english.

Language requirements
All applicants whose first language is not English must provide one of the following language certificates:
- TOEFL min. score: 87 (Internet-based)
- IELTS min. score: band 5.5
- CAE (Cambridge Certificate in Advanced English) min. score: C
- CPE (Cambridge Certificate in Proficiency in English) min. score: C
- FCE (Cambridge First Certificate) min. score: C

Lectures are in English.

German:
- Applicants with a Bachelor's degree in Biotechnology or Biochemical Engineering: All the modules in the Master's programme are in English. However, applicants must include a German A2 language certificate with their application, as lab work communication may be in German. The only accepted German language certificate is from Goethe Institute, the "Start Deutsch 2" certificate at level A2 (http://www.goethe.de/lrn/prj/pba/bes/sd2/enindex.htm).

- Applicants who do not have a Bachelor's degree in Biotechnology or Biochemical Engineering or have only 180 credit points: Students must take additional modules in Biotechnology in order to have sufficient knowledge to complete the Master's programme. These modules are taught in German and applicants must therefore have German B2 or TestDaF 3.

Application deadline
Application periods:
- 1 June - 15 July for the following winter semester
- 1 December - 15 January for the following summer semester

The online application is available on the university website during the application period only. See: http://www.haw-hamburg.de/english.

Submit application to
Students must apply online during the application period: http://www.haw-hamburg.de/english

Please print out the HAW Hamburg online application and send it with the necessary documents to:
HAW Hamburg
Admissions Office
Stiftstraße 69
20099 Hamburg
Germany

E-mail: master-application@haw-hamburg.de

Services
Possibility of finding part-time employment

You should plan to be able to study in Hamburg without having to work part-time. If you are coming on a visa, you will have to provide proof of your finances (697 EUR/month – 8,700 EUR/year).

EU students can work 20 hours/week.
International students from non-EU countries are only permitted to work 120 full days (240 half days) in one calendar year, and part-time job opportunities are limited, especially for students who do not speak German. It is unlikely that we will be able to offer you a job on campus.

Accommodation

It is not easy to find accommodation in Hamburg, so please be aware that finding somewhere to live can take a while. The halls of residence in Hamburg are run by the Studierendenwerk Hamburg and offer affordable accommodation for students under the age of 30. Generally, students have their own rooms in an apartment that they share with other students – the bathroom and kitchen are shared. The monthly rent for a room in a student hall of residence starts at roughly 250 EUR (including heating, water, and electricity). At the earliest, new students can apply three months before the start of their degree programme.

Further information on accommodation can be found on the university’s website: https://www.haw-hamburg.de/english.

Career advisory service

The HAW Hamburg has a Career Service Office that offers advice on working in Germany, finding internships and applying successfully for jobs in Germany.

Specific specialist or non-specialist support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
Hamburg University of Applied Sciences

Hamburg University of Applied Sciences (HAW Hamburg) is one of the largest of its kind in Germany and within our four faculties we offer a wide range of Bachelor’s and Master’s programmes in engineering, IT, life sciences, design and media as well as business and social sciences. We focus on applied sciences in our teaching, giving our students a practical insight into their fields of study through projects, lab work, internships and theses in industry. Our expertise is drawn from faculty members who have worked in industry before joining the university. In research, we are an important partner for the city of Hamburg’s companies and innovation clusters, developing new ideas from the synergies of this dynamic location.

I. Weatherall

Apurva Shrivastava
MSc Pharmaceutical Biotechnology

“I really appreciate that you can talk to the professors any time if you need advice, and the resources allow you to work independently. The HAW Hamburg professors have close contacts to industry, and this has helped me acquire a very good understanding of the bioprocessing industry in particular. They give you the whole story and insight into the practical aspects of industry. They make you think about what steps you need to take. You have to work really hard.”

HAW Hamburg in 120 seconds

HAW Hamburg image video

more:
https://www.youtube.com/watch?v=q0h5lomi5sw
Our fields of expertise reflect the technologies, industries and services that make Germany a leading economy, and our close collaboration with Hamburg’s innovation clusters allows us to develop this knowledge in our teaching and research.

We are a very international university, with students from over 100 countries making up 14% of our students. Combined with the international nature of the city of Hamburg, you will feel very comfortable studying here.

University location

In the north of Germany and in the heart of Europe, Germany’s second largest city (1.8 million) offers excellent quality of life and international flair. If you like to spend your leisure time outdoors, then you will love Europe’s “greenest” city with its lake, canals and beautiful parks. For those of you who love culture, Hamburg’s museums, theatres and its world famous concert hall, the Elbphilharmonie, will inspire you. Hamburg is also one of the most dynamic commercial centres in Europe, placing its strategic focus on six innovative segments: aviation (Airbus), IT and media, the international port and logistics, life sciences (biotechnology, medical technology and health care), nanotechnology, and renewable energies. The Economist ranked Hamburg as one of the top ten most liveable cities in the world, so we are sure you will feel at home.

Contact

Hamburg University of Applied Sciences
Faculty of Life Sciences
Department of Biotechnology

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21033 Hamburg

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Course website: https://www.haw-hamburg.de/english

https://www.instagram.com/hawinternational/

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