Table of Contents

Master's degree .................................................................................................................................................. 2

Biomedical Engineering (MSc) • Hamburg University of Applied Sciences • Hamburg .................. 2
# Master's degree

## Biomedical Engineering (MSc)

*Hamburg University of Applied Sciences • Hamburg*

## Overview

<table>
<thead>
<tr>
<th><strong>Degree</strong></th>
<th>Master of Science Biomedical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Teaching language</strong></td>
<td>English</td>
</tr>
<tr>
<td><strong>Languages</strong></td>
<td>All modules in the Master’s programme are taught in English.</td>
</tr>
<tr>
<td><strong>Programme duration</strong></td>
<td>3 semesters</td>
</tr>
<tr>
<td><strong>Beginning</strong></td>
<td>Winter and summer semester</td>
</tr>
</tbody>
</table>

**More information on beginning of studies**

- Winter semester: 1 September - 31 January
- Summer semester: 1 March - 15 July

**Application deadline**

An online application is available on the university website during the application periods only.

- 1 June - 15 July for the following winter semester
- 1 December - 15 January for the following summer semester

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 following modules are offered as part of the Master’s programme in Biomedical Engineering:

1. Mathematics
2. Data Acquisition
3. Advanced Biosignal Processing
4. Medical Image Processing
5. Application of Imaging Modalities
6. Advanced Control Systems
7. Modelling Medical Systems
8. Medical Real Time Systems
9. Simulation and Virtual Reality in Medicine
10. Biomedical Project
11. HTA / Regulatory Affairs
12. Master’s Thesis
Course Details

Course organisation

The programme is designed so students can start both in the winter or in the summer semester. Modules 1, 2, and 7 are offered both in the summer and winter semesters. Modules 3, 4, 5, 6, 8, 9 and 10 are offered either in the summer semester or in the winter semester on a yearly basis.

The third semester is scheduled for the Master’s thesis. To find more detailed information about the modules and course content, please click on the PDF link below.

Types of assessment

Written examinations, seminar papers, term papers, oral examinations, presentations, talks

A Diploma supplement will be issued

Yes

Integrated internships

The Master’s programme does not include an integrated internship, but the Master’s thesis can be completed in industry.

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 similar field
- Graduate Record Examination (GRE) (for applicants from non-EU countries)
- English language certificate, if English is not your first language (see language requirements)
- in some cases: A2 German certificate from Goethe Institute (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 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:
Students who do not have a Bachelor’s degree in Biomedical Engineering of a minimum of 210 ECTS will have to take additional modules in Biomedical Engineering in order to have sufficient knowledge to successfully complete the Master’s programme. These modules are taught in German. Students must include proof of German (minimum of A2 German Goethe Certificate with their application). However, we recommend that applicants have B2 German by the time they get to Hamburg in order to be able to successfully follow lectures in German.

In general, we recommend that applicants have A2 German when they get to Hamburg, as this helps a lot with integration into life in Germany.

Application deadline

An online application is available on the university website during the application periods only.

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

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 – 8,700EUR/year).
I. Weatherall

Amy Leson
MSc Biomedical Engineering

“The degree programme is project-based with a focus on programming and electronic engineering. It was mostly team-based learning, which involved learning how to work with other students. We also got to work with professors on research projects. A project I worked on with a professor recently had two papers published and was presented at a conference. But the most exciting thing for me is that I can do my Master’s thesis in industry!”

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.

<table>
<thead>
<tr>
<th>Accommodation</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Career advisory service</th>
</tr>
</thead>
<tbody>
<tr>
<td>The HAW Hamburg has a Career Service Office that offers advice on working in Germany, finding internships and applying successfully for jobs in Germany.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific specialist or non-specialist support for international students and doctoral candidates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome event</td>
</tr>
<tr>
<td>Buddy programme</td>
</tr>
<tr>
<td>Tutors</td>
</tr>
</tbody>
</table>

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.

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 Biomedical Engineering

Ulmenliet 20
21033 Hamburg

✉ petra.margaritoff@haw-hamburg.de
Course website: https://www.haw-hamburg.de/english

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

Last update 17.03.2020 08:39:26
International Programmes in Germany - Database

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

Editor
DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
(responsible: Judith Lesch)
Kennedyallee 50
D-53175 Bonn
www.daad.de

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".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.