



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## MSc Process Engineering

Hamburg University of Applied Sciences • Hamburg

### Overview

Degree	Master of Science in Process Engineering
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>Classes are held in English.</p> <p>No German is required to complete the course, but we recommend that you learn some basic German before starting the programme to help with integration into life in Germany.</p>
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	3 semesters
Beginning	Winter and summer semester
Additional information on beginning, duration and mode of study	This course is taught in person only. There is not an option to study online.
Application deadline	<p>Application periods:</p> <p>1 April to 15 May (programme start: October) 1 October to 15 November (programme start: April)</p> <p>Please have your school and Bachelor's certificates checked first by uni-assist (<a href="http://www.uni-assist.de">www.uni-assist.de</a>) to get a VPD ("Vorprüfungsdocumentation") BEFORE applying to HAW Hamburg.</p> <p>With your VPD, please apply using the HAW Hamburg online application portal. Here is the link: <a href="https://bit.ly/applyHAW">https://bit.ly/applyHAW</a>.</p> <p>The HAW Hamburg online application portal is open during the application period only.</p> <p>You do not need to send your documents with the postal mail to complete your application.</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

**Description/content**

The Master's degree (MSc) programme in Process Engineering at the HAW Hamburg provides participants with scientific and practical skills, which enable the students to conduct research and work in the field of research and development, maintenance and service, planning and design of plants, plant operation or management in the process-related industry or in academia. Graduates fulfil the formal and scientific requirements to start a PhD programme.

The Master's programme covers mathematical, scientific and engineering topics of the various phases of the process plant life cycle with a strong emphasis on digitalisation/industry 4.0.

The full-time study programme consists of three semesters (90 CPs). The first two semesters (60 CPs) encompass modules such as numerical mathematics, digital plant design, advanced instrumentation and automation, process optimisation and simulation, advanced thermodynamics and separation processes, advanced solids processing and reaction engineering, plant engineering, process and plant safety, multi-physics simulation, materials and corrosion, environmental technologies, bioenergy and plant operation. Non-technical skills focus on project management and asset management as well as project finance.

Most lectures and seminars are complemented by associated practical courses with state-of-the-art software tools and experiments in our on-site laboratories. Students can deepen their competences in a scientific project in small groups. Enhanced soft skills are acquired in the seminars and during the lectures through intense discussions and small projects as well as presentations, posters and papers.

The third semester is a research semester (30 CPs) with the completion of a Master's thesis. Students will participate in a research project conducted at the university or in the industry.

This course is taught in person only. There isn't an option to study online.

## Course Details

**Course organisation**

The first two semesters (60 CPs) consist of courses in small groups, seminars, project and lab work. The programme contains compulsory, compulsory elective and elective modules.

The Master's thesis is written at the university or in industry during the third semester.

This course is taught in person only. There isn't an option to study online.

For further details, please click on the PDF link below.

[» PDF Download](#)

**A Diploma supplement will be issued**

Yes

**Integrated internships**

The programme does not include an integrated internship, but most students complete the Master's thesis in industry.

**Course-specific, integrated German language courses**

No

**Course-specific, integrated English language courses**

No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	None
<b>Semester contribution</b>	Each semester, students have to pay a semester contribution (345 EUR as of September 2024). This fee includes a semester ticket for unlimited use of Hamburg's public transport system. For more information about studying and living in Hamburg, see: <a href="https://www.haw-hamburg.de/en/international/international-students/">https://www.haw-hamburg.de/en/international/international-students/</a> .
<b>Costs of living</b>	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.
<b>Funding opportunities within the university</b>	Yes
<b>Description of the above-mentioned funding opportunities within the university</b>	Students can apply for scholarships for academic excellence. They can also apply for an examination scholarship when they are in their final semester. This will serve as a financial support while students are completing their Master's theses. More information can be found here: <a href="https://www.haw-hamburg.de/en/international/international-students/">https://www.haw-hamburg.de/en/international/international-students/</a>

## Requirements / Registration

<b>Academic admission requirements</b>	<ul style="list-style-type: none"> <li>• Bachelor's degree (or equivalent) in process engineering or a similar technical field</li> <li>• Graduate Record Examination (GRE) for applicants who do not have a Bachelor's qualification from an EU country</li> <li>• Proof of English language ability if English is not your first language (see language requirements)</li> </ul> <p>Uni-assist (VPD) (<a href="http://www.uni-assist.de">www.uni-assist.de</a>): Students who completed their school education outside Germany must have their high school and Bachelor's certificates checked by uni-assist and receive a VPD BEFORE applying to the HAW Hamburg. The VPD from uni-assist must be uploaded as part of the application process at HAW Hamburg. Please be advised that the uni-assist VPD process can take six to eight weeks, so please apply early.</p> <p>More information about the academic requirements can be found here: <a href="https://bit.ly/31YhrXQ">https://bit.ly/31YhrXQ</a>. Should you have additional questions, please write to the Admissions Office: <a href="mailto:master-applications@haw-hamburg.de">master-applications@haw-hamburg.de</a></p>
<b>Language requirements</b>	<p>All applicants whose first language is not English must provide one of the following language certificates:</p> <ul style="list-style-type: none"> <li>• TOEFL min. score: 87 (Internet-based)</li> <li>• IELTS min. score: band 5.5</li> <li>• FCE (Cambridge First Certificate) min. score: C</li> <li>• Any other certificate proving level B2 acc. to Common European Framework of Reference for Languages (CEFR)</li> </ul> <p>Knowledge of German is recommended.</p>
<b>Application deadline</b>	<p>Application periods:</p> <p>1 April to 15 May (programme start: October) 1 October to 15 November (programme start: April)</p> <p>Please have your school and Bachelor's certificates checked first by uni-assist (<a href="http://www.uni-assist.de">www.uni-assist.de</a>)</p>

to get a VPD ("Vorprüfungsdocumentation") BEFORE applying to HAW Hamburg.

With your VPD, please apply using the HAW Hamburg online application portal. Here is the link: <https://bit.ly/applyHAW>.

The HAW Hamburg online application portal is open during the application period only.

You do not need to send your documents with the postal mail to complete your application.

#### Submit application to

Please apply using the myHAW online application system on the HAW Hamburg website. Here is the link: <https://bit.ly/applyHAW>

You do not need to send your documents with the postal mail to complete your application. If you are offered a place, we will ask you to submit documents.

[master-application@haw-hamburg.de](mailto:master-application@haw-hamburg.de)

## Services

#### Possibility of finding part-time employment

If you are coming to Germany on a visa, you will have to provide proof of your finances for the first year: 853 EUR/month – 10,236 EUR/year.

EU students can work 20 hours/week.

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.

More information can be found here, under "Visa & Paperwork":

<https://www.haw-hamburg.de/en/international/international-students/>

#### Accommodation

"Studierendenwerk Hamburg" offers affordable accommodation for students under the age of 30. Generally, students have their own room in a shared apartment with a communal bathroom and kitchen. The monthly rent for a room in a student hall of residence is usually between 350 and 450 EUR (including amenities). New students can apply three months before the start of their degree programme.

Please be advised that it is unfortunately not easy to find accommodation in Hamburg; finding somewhere to live can take a while. The student halls of residences offered by the "Studierendenwerk Hamburg" often have waiting lists.

Further information on accommodation can be found here: <https://www.haw-hamburg.de/en/study/campus-life/accommodation/>.

#### Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors



## HAW Hamburg Image Video

The HAW Hamburg in 120 seconds

» more:  
<https://www.youtube.com/watch?v=q0h5lomi5sw>

# — Hamburg University of Applied Sciences —



HAW Hamburg Bergedorf campus – Faculty of Life Sciences

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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 16% of our students. Combined with the international nature of the city of Hamburg, you will feel very comfortable studying here.

Read more about the city and what our students say: <https://bit.ly/3bq2r13>

## 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. We are sure you will feel at home.

## Contact


### Hamburg University of Applied Sciences


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Department of Process Engineering

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 [master-pe@haw-hamburg.de](mailto:master-pe@haw-hamburg.de)

 Course website: <https://www.haw-hamburg.de/en/study/degree-courses-a-z/study-courses-in-detail/course/courses/show/master-process-engineering/Interested/>

 <https://www.facebook.com/HAWHamburgStudyAbroad>

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

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
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## GATE-Germany

Consortium for International Higher Education Marketing  
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