Software Engineering for Industrial Applications (M.Eng.)

Master's Program
Hof University Graduate School

Hochschule Hof
University of Applied Sciences

Software Engineering for Industrial Applications – What is it all about?

You already earned a Bachelor in Software Engineering or Computer Science and gathered some professional experience? You feel a need for deeper knowledge of software management and engineering tasks, especially for earning a leading position?

Then our M. Eng. program in Software Engineering for Industrial Applications is just right for you. Kick-start your career with our perfect interdisciplinary toolbox of knowledge and skills in outstanding technological competence, software management and engineering skills.

Our web technology-, development- and software management oriented modules provide you with the strategic knowledge you need and enables you to develop industrial applications for companies all over the world. We also focus on software and project management.

Our teaching methods include various modern methods such as cloud-computing and international projects with our partner universities.

What do I gain with this M.Eng.?

With this Master's program, you gain

_ a unique Master's degree at the interface of management and technology with the degree M.Eng.

_ a perfect interdisciplinary toolbox of knowledge and skills for complex management and engineering tasks in the field of software development

_ German language skills of at least level A2 at graduation.

In addition, you benefit from

_ an innovative mix of teaching methods - virtual learning, blended learning, simulations and case studies

_ development of your intercultural competence,

_ valuable work experience gained during the internship semesters.

Further information is available on www.hof-university.de

Fast facts

Degree awarded
Master of Engineering (M.Eng.)

Duration
4 semesters (2 theoretical, 2 practical)

Language of instruction
Fully taught in English

Internship
Mandatory internship in industry (semester 3 and 4)

Tuition fees
EUR 3,300 per semester (i.e. a total of EUR 13,200)

Services and support for international students

_ organisational support before and during your studies at Hof University

_ assistance in finding accommodation

_ Orientation Week prior to the start of your studies

_ social integration

_ career-promoting activities such as intercultural trainings, field trips, and company visits

_ free public transportation in the city of Hof

Special features

Internship

A unique feature of our M.Eng. is that students spend the second year doing a paid practical internship in industry (e.g. in an IoT- or web technology or software development project).

The Master thesis is also project-based and done in cooperation with a company. Thus, you can immediately apply your knowledge, gain profound professional experience and earn money at the same time.

German language skills

We place special emphasis on the language education of our students. For entering the internship, all students have to prove at least the German language level A2.

For students with a German language level of A1 at the point of admission, classes with higher German levels are also available.

Teaching concept
at Hof University Graduate School

All our programs are **practice-oriented, interactive and multimedia-based**. Teaching is based on application-oriented knowledge and is supported by projects with industry, site visits and interaction with experts. Case studies as well as real-life business examples contribute to profound insights into the theoretical knowledge.

Our professors (all with PhD) and lecturers are experts in their respective fields bringing together solid scientific understanding with valuable professional experience. Thus, the knowledge transfer from business life to the classroom is ensured.

In addition, we have a **strong focus on career promoting activities for students** (e.g. career talks, job fairs, seminars and trainings). A three-day team-building event is a highlight for our third and fourth semester students. It includes an industrial visit and is a great opportunity for students and professors to meet outside the campus. Through an intensive exchange of ideas and networking, a connection is established beyond the point of graduation.

What do I need to bring?

Academic requirements

- A **Bachelor's degree in software engineering** or similar from an accredited university, at least 180 ECTS or equivalent (depending on home country)
- **One year of work experience**

Language requirements

You need to prove your **proficiency in English**. This can be done with either of the following:

- TOEFL minimum 90
- IELTS 6.5 or above

By the beginning of the internship, all students have to prove that they are at a A2 German language level. The German language level A2 can be reached during the studies in Hof.

When and how can I apply?
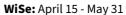
Online application
You register in our online portal Primuss and fill in the application form with your personal details. You also upload all required documents in the portal and send your application directly to Hof University.

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Application period

WiSe: April 15 - May 31

SuSe: November 5 - November 30

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Get your admission letter from Hof University

WiSe: in June

SuSe: in December

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Online enrolment

WiSe: in September

SuSe: in March

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Orientation Period

WiSe: last two weeks of September

SuSe: first two weeks of March

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Start of your studies at Hof University

WiSe: October 01

SuSe: March 15

WiSe: Winter semester   **SuSe:** Summer semester

Semesters 1 & 2	Practice-oriented theory	**Basic modules (all mandatory)** _ Project management _ Software engineering _ Communication and negotiation skills _ Internet of things **Core modules (all mandatory)** _ Component oriented software engineering _ Advanced programming _ Concept and tools for application development _ Practical studies - Industry 4.0 _ Non-relational data bases _ Applied cloud computing **Electives (select two)** _ German language A1 * _ German language A2 * _ Analytical information systems _ Mobile computing _ Recent trends in software engineering * mandatory with German level of A1 at the point of admission
3 & 4	Internship	_ practical work-experience _ Master's thesis with a company

What are my career perspectives?

As a graduate, you...

_ have excellent career perspectives in various fields, e.g. web technology projects, component-oriented software development or software design,

_ most likely find an interesting and well-paid position immediately after graduation to due a high demand for skilled software engineers in Germany,

_ are predestined to work in international software project teams.

... Entry positions?

You are ready to work as

_ Software Developer

_ Software Engineer

_ Software Quality Manager

_ Software Change Manager

_ Industrial IoT Systems Developer

„ The mandatory internship crowns it all by giving you one-year working experience in a German company."

Francis from Ghana
Graduate from Hof University Graduate School

What is so special about the program structure?

„It is a well-structured program with exciting modules to deepen your existing knowledge as a Software Developer, which is the main reason I chose to study here. The entire program is taught in English but you also have the opportunity to study German at the University. This really sharpened my German skills and by the second semester I could read and understand some journals written in Deutsch."

Anything else you liked in particular?

„There is also a good balance between studies and social life; there are lots of social activities, job fairs, workshops and parties where you meet and learn from people of different cultural backgrounds. Studying and living in Hof has been an amazing journey!"

Ivan from U.S.A.
Graduate from Hof University Graduate School

„Choosing to go to Hof University to pursue my master's degree was a difficult but ultimately incredibly rewarding experience. It allowed me to expand my professional and social skills while experiencing the history, culture and natural beauty of Germany. The lectures were engaging and covered relevant topics which were further developed during my internship. After I finished my degree, I was hired immediately in my field of interest and I look forward to continuing living in Germany."

Why choose Hof University?

At Hof University, you can expect

_ a first-class, hands-on education,

_ a safe, friendly and open-minded study environment, especially for international students,

_ extensive personal support by our Welcome Center, International Office and Career Service.

In addition, you benefit from

_ assistance in finding accommodation,

_ orientation sessions prior to the start of your studies,

_ additional activities such as intercultural trainings, field trips and company visits,

_ 24-hours access to computer labs and library,

_ free wifi on campus.

About Hof University

Founded in 1994 as a Bavarian state university, Hof University of Applied Sciences offers a very attractive study environment with its modern architecture and state-of-the art facilities. Practice-orientation, internationalisation and graduate employability are at the heart of teaching and research at Hof University.

German students and international students from more than 60 countries learn together on our open-minded, intercultural campus. Exciting student initiatives (e.g. eSports, Fairtrade Group or Formula Student) make student life even more interesting.

All professors and lecturers have a strong academic background as well as practical experience in the industry. In addition, all our professors hold a PhD. As a result, graduates of Hof University are ideally prepared for the domestic and international labor markets.

Located at the top of Bavaria, Hof is a safe and cozy town in the heart of Europe with all amenities of a university town. Its green surroundings are ideal for all outdoor activities, and major cities like Berlin or Munich are within easy reach.

Who can I contact
with further questions?

Head of M.Eng. Program

Prof. Dr. Jürgen Heym
graduate.school@hof-university.de

Welcome Center

Carolin Huttner
Tel +49 9281 409-3319
welcome@hof-university.de

facebook.de/
HochschuleHof

instagram.com/
hof.university.international

youtube.com/c/
HochschuleHof1

**Hochschule Hof
Campus Hof**

Alfons-Goppel-Platz 1
95028 Hof/Saale
Germany
Phone +49 9281 409-3357
www.hof-university.de