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German Academic Exchange Service

INTERNATIONAL PROGRAMMES

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Table of Contents

Master's degree

Applied Research in Computer Science (MSc)

Hof University of Applied Sciences • Hof

Overview

Degree	Master of Science
Teaching language	• English
Languages	Courses are held in English.
Programme duration	3 semesters
Beginning	Winter and summer semester
Application deadline	Our application portal is open during the following application periods: • 5 November – 30 November for the following summer semester • 15 April – 31 May for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Digitalisation is not just about converting analogue information to a digital format, but includes changing business models, providing services around products, and open innovation. In a world where fast time to market is increasingly important, corporations are well advised to listen to their customers for suggestions for improvement or new products and work closely together with universities and research labs to incorporate the latest technologies that help them to fulfil their customers' needs. If you want to become part of this effort and help to bring results from basic research into practice while gaining professional experience in local companies in Upper Franconia and the surrounding area, then this Master's programme is right for you. **Playing with the latest technologies** Within the Institute of Information Systems, we are working with the latest technologies like machine learning and artificial intelligence, cyber-physical systems, smart data and data analytics, virtual and augmented reality, autonomous cars, and digital mobility as well as digital healthcare and the Internet of Things. We bring these technologies together by creating applications that really help people, are easy to use, and respect users' privacy requirements. We are dealing with recent trends like usability, speech recognition, and natural language processing as well as listening to the challenges that the industry is facing. Bringing together users' needs and technological possibilities is at the heart of our mission. **What does Hof University of Applied Sciences offer?**

Being part of our multi-disciplinary team of experts with backgrounds in computer science, electrical engineering, business information systems, information science, and business law will enrich your career. You can combine the best of multiple worlds by gaining a Master's degree, having fun with the latest technologies, and learning about scientific research methods and a structured approach to problem solving while experiencing the working situation in our partner corporations. Talented people with good ideas and an entrepreneurial spirit will get direct support from our digital startup centre Einstein1 in order to build their own company right away. Graduates with excellent grades will get an opportunity to proceed with PhD studies.

How does it work?

The study programme consists of work in research projects of the research groups at the Institute of Information Systems (iisys), special lectures in research methodology as well as lectures in computer science subjects, organisation science and business law. There will be a good mixture of practical work like programming and training of social skills (in meetings and by giving presentations) as well as conceptual work like creating architecture models, doing criteria-based comparisons or literature reviews to find suitable algorithms, and research approaches.

Course Details

Course organisation	**Obligatory modules** • New Technologies in Computer Science • Design Science Approaches in Computer Science Research • Behavioural Approaches in Computer Science Research • Designing and Developing Business Models • Project seminar • Research project **Electives (choose two):** • Security of Information Systems • Data Engineering and Analysis Methods • Mixed Media (AR, VR, MR) • IoT Architectures • Security research seminar • Information Structuring and Visualisation
A Diploma supplement will be issued	Yes
International elements	• International guest lecturers • Language training provided • Training in intercultural skills
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	Administrative fee of approx. 125 EUR per semester
Costs of living	The cost of living in the city of Hof is moderate compared to both other European countries and bigger cities in Germany. On average, living expenses for a student range between 800 and 1.000 EUR per month in total. The following is an approximate cost calculation of expenditures per month: • accommodation: 350 to 550 EUR • mandatory health insurance: about 120 EUR • food and personal expenditures: at least 350 EUR
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	• Bachelor's degree in computer science, media informatics, mobile computing or business information systems, or comparable study programmes (Please note: electrical engineering is NOT in compliance with the requirements.) • Above average grades in object-oriented programming, software engineering, computer networks and databases • Written application that includes your Bachelor's thesis, a certification about an internship or practical work of at least 18 weeks, and a two-page literature review about a scientific topic of one of the iisys research groups • Oral exam with questions and discussion of a case study presented by you (can be done via video chat) Please check our website for **further information on the admission requirements** and the list of our research topics for project work**.**
Language requirements	Applicants must be proficient in **English**. This can be proven with one of the following: • TOEFL minimum 90 (Test of English as a Foreign Language) • IELTS 6.5 or above (International English Language Testing Systems) In addition: Basic language skills in **German**, proven by official test score documents – minimum level A1 according to CEFR (Common European Framework of Reference for Languages)
Application deadline	Our **application portal** is open during the following application periods: • 5 November – 30 November for the following summer semester • 15 April – 31 May for the following winter semester
Submit application to	https://www3.primuss.de/cgi-bin/bew_anmeldung_v2/index.pl?Session=&FH=fhh&Email=&Portal=1&Language=en

Services

Accommodation	The **Housing Office** supports international students in finding appropriate accommodation.

Rent for a single student room is approx. 350 to 550 EUR. Rent for a private one-room apartment for one tenant or for a couple is more than 550 EUR. We also have a limited number of double rooms for friends that cost about 250 to 300 EUR per person. Beside the rent, there are additional costs for water, energy, broadcast fee, and Internet.

For a full overview of the practical issues related to living in Hof and our support services for international students, please have a look at the website of our **Welcome Service** and **Housing Office**. |
| **Career advisory service** | The **Career Service** team at Hof University offers you a **wide range of career preparation and orientation services,** including workshops, company excursions, and job fairs. We will **prepare you for the German labour market** by providing you with specific information, counselling, and qualifications. Thus, you will be able to start your individual career as an intern and as a graduate. |
| **Support for international students and doctoral candidates** | Accompanying programme Specialist counselling Cultural and linguistic preparation Visa matters Help with finding accommodation Support with registration procedures |
| **General services and support for international students and doctoral candidates** | We know that adjusting to your new life in Germany is an adventure that is both exciting and challenging. There is no need to be scared – we are here to help you!

At Hof University, we are proud of our **warm welcome culture** and offer **numerous services for our international students.** Our team will assist you in all aspects of your stay in Hof. We will help you find the right academic programme and language courses and support you in organising all formalities such as visas, residency, insurance, and banking.

Prior to the start of each semester, we organise an **orientation period** for our new international students. With the expert assistance from our motivated team, you will smoothly settle into your new personal and academic environment. Additionally, our **International Student Network,** a group of motivated students, will help you feel at home by organising social activities. |

Contact

Hof University of Applied Sciences
Welcome Center

Alfons-Goppel-Platz 1
95028 Hof

Course website: https://www.hof-university.com/studying-at-hof-university/our-degree-programs/applied-research-in-computer-science-msc.html

https://www.facebook.com/HochschuleHof/

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https://www.instagram.com/hof.university.international/

https://www.youtube.com/c/hochschulehof1

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International Programmes in Germany - Database

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