



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Analytical Instruments, Measurement and Sensor Technology (AIMS)

Coburg University of Applied Sciences and Arts • Coburg



Overview

Degree	Master of Engineering
In cooperation with	<ul style="list-style-type: none">University of SienaUniversity of Shanghai for Science and Technology (USST)
Teaching language	<ul style="list-style-type: none">English
Languages	All courses are given in the English language. Additionally, the Master's thesis is written in English.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	We always start lectures on 1 October. We offer an orientation week before the semester starts for you to get help with city registration, residence permit, settling in Coburg and finding new friends as well as getting to know your classmates and other international students.
Application deadline	Deadline for the winter semester: 30 June For German students: 31 August
Tuition fees per semester in EUR	3,900 EUR
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	In our international Master's programme in Analytical Instruments, Measurement and Sensor Technology (AIMS), you will find a broad range of subjects that are essential for a successful career

in any kind of industry in Germany or worldwide. The subjects of this study programme are of outstanding practical importance for a wide variety of highly innovative industrial sectors.

Some of the main focuses of our programme include sensor technology and measurement techniques as well as data acquirement and analysis. Our cooperation agreements with the University of Siena (Italy) and the University of Shanghai for Science and Technology (USST) allow you to gain even more international experience.

Current information

All our lectures take place on site again. If a lot of students arrive late due to visa problems, we might start the programme in a hybrid way. There are also some additional courses you can choose to take online.

Course Details

Course organisation

It will take you four semesters to study AIMS if you finish everything in time. This comprises one semester in Coburg at the Coburg University of Applied Sciences and Arts (CUASA), one semester in Italy at the University of Siena or in Shanghai at the University of Shanghai for Science and Technology (USST) and a practical internship. The last semester is dedicated to the Master's thesis.

You will attend lectures, but you will also gain hands-on experience through lab experiments. Throughout the semester, you will get the chance to work on your own project and take a look at the newest applications in industry.

Main subjects

Main subjects covered in Coburg

- Sensor Technology
- Computer-Based Measurement Technology
- Mathematical Data Analysis

Electives in Coburg

- Optical Methods and Technologies
- Design of Experiments
- Chemical Sensors
- Instrumentation for Nanoscience
- Industrial Electronics

Subjects in Siena (you can choose among them)

- Industrial Reliability
- Mobile Communications and IoT
- Sensors and Microsystems
- Virtual Instrumentation and Digital Embedded Electronics
- Manufacturing Strategies and Operations
- Modern Communication Technologies for 5G and Beyond
- Cybersecurity

Main subjects covered in Shanghai

- Nanometrology
- Digital Signal Processing
- Photoelectric Detection

Electives in Shanghai

- Automotive Electronics
- Optical Imaging and Image Processing Technology
- IoT

A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"> Integrated study abroad unit(s)
Integrated study abroad unit(s)	International students must spend one semester at one of our partner universities in Siena or in Shanghai and at least one year in Germany. German students have to complete one semester in Coburg and one semester of coursework as well as the practical internship abroad.
Integrated internships	<p>One of the biggest benefits of the AIMS programme is the internship. It takes at least 12 weeks, but it can also be extended. International students complete their internships in Germany (mostly in a German company), and German students complete theirs abroad. In Germany, internships are paid. You are able to earn between 600 to 1,600 EUR per month.</p> <p>Students may take advantage of our well-developed network with companies in order to find appropriate placements. For international students, the internship is often the first step of their careers in Germany.</p>
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	3,900 EUR
Semester contribution	There is a semester service fee of approx. 132 EUR, which includes a bus ticket for all city buses in Coburg and trains to Bamberg (UNESCO World Heritage Site) and Bad Rodach.
Costs of living	International students need a blocked account that shows that they have 934 EUR per month for one year in order to get a visa for Germany. In cities like Munich, Hamburg or Berlin, it might be quite difficult to get along with this amount, but for Coburg, it is enough for your living expenses.
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	We welcome students with an undergraduate degree in engineering or in the natural sciences with above-average results, some intercultural skills, knowledge in electronics and postgraduate professional experience of generally not less than one year.
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Language requirements	<p>The entire programme is taught in English. Proficiency in English at a level suited for the Master's programme (i.e. TOEFL, IELTS, or equivalent) is required.</p> <p>Details are available here.</p>
Application deadline	<p>Deadline for the winter semester: 30 June</p> <p>For German students: 31 August</p>
Submit application to	Online portal

Services

Possibility of finding part-time employment	<p>There are various institutes at Coburg University of Applied Sciences and Arts such as the Institute of Sensor and Actuator Technology (ISAT) or the Technology Transfer Centre Automotive (TAC). They offer selected candidates the opportunity to participate in research and development projects. Other job possibilities in Coburg are available. Sometimes it depends on your level of German.</p> <p>During the internship and the Master's thesis, students receive a salary from the companies of between 600 and 1,600 EUR per month (900 EUR on average).</p>
Accommodation	<p>You will get help in finding accommodation from the International Office and the AIMS office of Coburg University of Applied Sciences and Arts. You can rent apartments in halls of residence on campus (450 modern single apartments with kitchens, bathrooms and modern facilities such as internet access). The apartments must be rented for at least six months (September to February or March to August).</p> <p>In Siena, the International Office of the University of Siena will help you to get a double room in the dorms, or an agency will help you to find a private apartment. In Shanghai, you will have a double room in the international dorms on campus, or an agency will help you to find suitable accommodations near our partner university (USST).</p>
Career advisory service	<p>Coburg University of Applied Sciences and Arts maintains a cooperation agreement with the German Job Centre in Coburg to help students check their internship or job applications.</p>
Support for international students and doctoral candidates	<ul style="list-style-type: none"> • Welcome event • Buddy programme • Accompanying programme • Pick-up service
General services and support for international students and doctoral candidates	<p>In the AIMS programme at Coburg University, you will get an all-inclusive package with help in every area of your life from the AIMS office. Do you need an appointment for city registration / to open a bank account / for your residence permit? Do you need a doctor? Do you have problems with your landlord? Do you not understand the internship contract? Ask us. We are here for you.</p>



©AIMS office

Amit Dani
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For me, one of the big gains of the AIMS programme was the hands-on laboratory experience, which took place every week throughout the course of study. The mandatory internship at a German company was another benefit of the programme. Added to that, AIMS also helped me to develop an international outlook by spending one semester in Shanghai. With this know-how, it was easy for me to start my career as an engineer in a multinational company here in Germany.

Our Partners



Studying at Coburg University of Applied Sciences and Arts

This is a general video of Coburg University of Applied Sciences and Arts. You will get an idea of what studying and living in Coburg is like.

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

– Coburg University of Applied Sciences and Arts –



View of Coburg University of Applied Sciences and Arts

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The Coburg University of Applied Sciences and Arts is a well-established, public, medium-sized university with about 5,600 students. We have just the right size for international students to settle in and feel at home. Due to the size of our university, we can individually take care of you and any concern you might have during your stay.

The university is located near the city centre of Coburg. In fact, it is just a short walk from the city centre. You can also explore the region with the semester ticket/student ID card.



University location

Coburg lies in the northern part of the culturally rich state of Bavaria and is characterised by a strong presence of small and medium-sized enterprises, among them several global players. It is a medium-sized city where you can explore a combination of tradition and modernity. The city was established in the Middle Ages and has a historic town centre and a medieval castle. At the same time, it offers all the comforts of a modern city, including many interesting cultural and sport events. Coburg is an attractive destination both for studying and for leisure activities.

Contact

Coburg University of Applied Sciences and Arts
Faculty of Applied Sciences and Health

Dr Inga Emmerling

Friedrich-Streib-Str. 2
96450 Coburg

Tel. +49 9561317605

✉ aims@hs-coburg.de

🌐 Course website: <https://www.hs-coburg.de/aims>

Andrea Gast

Tel. +49 9561317606

📘 <https://www.facebook.com/hscoburgAIMS/>

🌐 <https://www.linkedin.com/school/18150257/>

📷 <https://www.instagram.com/aimscoburg/>

📺 <https://www.youtube.com/user/HochschuleCoburg/videos>

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Editor

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

GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

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