



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree

Technology
Arts Sciences
TH Köln

Automation & IT (MEng)

Technische Hochschule Köln (University of Applied Sciences) •
Gummersbach



Overview

Degree	Master of Engineering in Automation & IT
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English (100%). Participants have the opportunity to join a free German course offered by the Language Learning Center of TH Köln.
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Please check the "How to Apply" section of the individual TH Köln programme websites for current application deadlines. http://www.th-koeln.de/programs
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Automation technology has been influenced primarily by developments in information technology (IT) for a quarter of a century now. These developments are of ever-increasing significance both in the areas of hardware and software. The international Master's programme Automation & IT is a fully-accredited programme with an innovative interdisciplinary focus. With respect to the above-mentioned trend, it covers the areas of both industrial automation and computer science. Strong connections to industry and well-equipped laboratory and research facilities enable students to gain experience in this exciting and emerging area.</p> <p>The Master's programme focuses on the following subject areas:</p> <ul style="list-style-type: none">Modelling and SimulationAutomation and ControlOptimisation and Machine LearningIndustrial CommunicationsIndustrial IT

- IT Security

For further information: http://www.master-ait.de/content/index_eng.html

Course Details

Course organisation	<p>The Master's programme comprises four semesters:</p> <ul style="list-style-type: none"> • Semesters one and two impart technological know-how in the form of lectures, tutorials, and laboratory courses. • In semester three, case studies are carried out in small teams of three to five students. • In semester four, the programme is concluded with the Master's thesis. <p>The programme ends with the award of the degree Master of Engineering (MEng).</p>
A Diploma supplement will be issued	Yes
Integrated internships	The instructional philosophy emphasises real-life experiences through extensive hands-on, laboratory-based training, coops, and internships. Project work forms part of the course in research projects as well as in projects with industry.
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	<p>Approx. 305 EUR per semester</p> <p>The semester fee includes a semester ticket for public transport throughout Germany.</p>
Costs of living	The cost of living for your stay largely depends on your personal needs. When planning your stay, you should calculate monthly costs of approx. 1,000 EUR.
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	International students are eligible to apply for the "Deutschlandstipendium". The scholarship holders receive approx. 300 EUR per month for the duration of one year.

Requirements / Registration

Academic admission requirements

For admission to the Master's programme "Automation & IT" (MEng), applicants are required to have successfully completed studies in the fields of electrical engineering or related fields (Bachelor's or comparable degree).

The following application documents are required:

- graduation certificate (certified copy)
- curriculum vitae (in tabular form)
- proof of English proficiency (see language requirements)
- a two-page description of your motivation to study, including your further research interests (in English)

Please find further details and a checklist at: http://www.master-ait.de/content/index_eng.html

Language requirements

Certified proficiency in English: TOEFL (550 points), Computer TOEFL (213 points), Internet (80 points), IELTS (band 6.0), Cambridge Certificate in Advanced English, level C1, or equivalent certificate

Application deadline

Please check the "How to Apply" section of the individual TH Köln programme websites for current application deadlines.

<http://www.th-koeln.de/programs>

Submit application to

If you are a prospective international student, the way to apply is determined by your citizenship, your desired degree programme, and your previous academic qualifications.

Further information on how to apply: www.th-koeln.de/howtoapply

Services

Possibility of finding part-time employment

Taking on a part-time job while studying has lots of benefits. Students can earn some extra money and gain valuable professional experience, and they might even take a first step up on the career ladder. Gaining a first insight into the German corporate world is especially beneficial for international students.

Many students partially fund their studies at TH Köln by taking on a part-time job in or outside the university.

Accommodation

Being Germany's fourth largest city, Cologne is a highly attractive place to live. The increasing influx of people can make the search for adequate accommodation quite difficult. Dozens of apartment hunters often compete for one single apartment. This is why we strongly recommend that you start looking for a place to live as soon as possible. Cologne's most convenient and economical housing option is often a student dormitory. A public student service association called "Kölner Studierendenwerk" (KSTW) operates 88 student dorms offering roughly 4,800 rooms. The seemingly large number of dorm rooms is misleading; as the dormitories are open to the roughly 90,000 students enrolled at all Cologne universities, they are in extremely high demand. Please be aware that TH Köln does not allocate the rooms in these dorms. Please apply directly to the KSTW: <https://www.kstw.de/wohnen>. You do not yet need a letter of admission in order to apply.

The fierce competition on the private housing market has resulted in above-market rents – particularly in proximity of the city centre. We therefore encourage you to be flexible. Try to look for apartments outside of the centre or share an apartment – and the cost of rent – with other students.

Finding accommodation in Gummersbach is more relaxed than in Cologne. This applies to both the availability of apartments and the price level. KSTW operates three dorms near the Gummersbach Campus. One of them is located directly in the centre next to campus. Demand for rooms there is very high, and the likelihood of securing a place is lower than in the other two dorms.

Gummersbach is situated around 50 km east of Cologne and has a population of around 54,000. The train journey from the main station in Cologne to Gummersbach takes around 1 hour and 15 minutes. Good alternatives for accommodation are also towns such as Rösrath, Overath, and Engelskirchen. These are located between Gummersbach and Cologne along the regional train line (RB 25). This way, you'll be connected to both cities while enjoying lower rent prices compared to Cologne. The demand for accommodation in these towns is not as high as in Cologne.

www.th-koeln.de/accommodation

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Accompanying programme
- Visa matters

– Technische Hochschule Köln (University of Applied Sciences)



TH Köln: Main building of the Südstadt Campus in Cologne

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Technische Hochschule Köln – abbreviated as TH Köln – University of Applied Sciences – sees itself as a university of technology, arts, and sciences. With its disciplinary and cultural diversity and openness, TH Köln's activities are aimed at cultural and technological breakthroughs of high societal relevance. Thus, TH Köln contributes substantially to resolving social challenges. As a community of faculty and students, we see ourselves as a learning organisation forging new paths. For instance, TH Köln is one of the pioneers in the field of development and formation of concepts for higher education didactics.

Our subject range includes the fields of applied natural sciences, architecture and construction, information and communication, computer science, engineering, culture and society, and social sciences as well as business studies. More than 100 degree programmes are offered as full-time programmes or, in some cases, as career-integrated or part-time programmes. As a place where research-based learning and academic education take place, the university nurtures prospective scholars through cooperative dissertations. Annually, more than 5,000 students take up their studies at TH Köln. Overall, 23,500 students from about 120 different countries along with 430 professors and 2,000 staff members apply their potential.

Research mainly focuses on future-related issues, including climate change, energy supply, health, and food safety as well as demographic changes. While developing solution strategies for the most important questions of our time, researchers offer their professional expertise in interdisciplinary interaction. At the same time, they collaborate closely with local, national, and international cooperation partners, including 350 international institutions of higher education. The university offers its researchers an attractive sphere of activity. The quality seal "HR Excellence in Research" awarded by the European Commission certifies that TH Köln meets international standards in the field of human resources development.

TH Köln's campuses are located in Cologne, Gummersbach, and Leverkusen.

Technology
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TH Köln

University location

Its metropolitan vibe, diverse student scene and a cityscape abounding with cultural and historical treasures make Cologne one of Europe's prime university cities. Cologne's origins date back to the Roman Empire more than 2,000 years ago. Today, Cologne is Germany's fourth largest city with a population of just over one million and has evolved as an economic and cultural metropolis at the heart of Europe. The city's characteristic landmark and source of pride for every inhabitant is without a doubt the magnificent Cologne Cathedral, locally known as the "Kölner Dom". Towering over the quaint Old Town of Cologne at 156 metres, this masterpiece of Gothic architecture is the world's third-highest cathedral and attracts around six million visitors a year, making it Germany's most popular tourist attraction. Visitors from all over the world are bound to feel at home immediately, as Cologne is a true melting pot of cultures. Close to one-fifth of its inhabitants have an international background. Cologne's economy is characterised by its amalgamation of different industries and trades. Home to the country's most influential television and radio stations, Cologne is unquestionably Germany's media capital and host to some of the continent's biggest trade fairs. Quite a few of the world's most renowned enterprises call the metropolitan region their home, in particular, corporations operating in the automobile industry, biotechnology and life sciences, chemicals and pharmaceuticals as well as commerce and banking.

Please note that TH Köln also has two remote campuses outside Cologne, which are located in the towns of Gummersbach and Leverkusen.

Gummersbach is a town with 50,000 inhabitants located 55 km east of Cologne, surrounded by a hilly landscape which is a recreational area for residents from Cologne and other cities nearby. The campus can be reached in a few minutes from Gummersbach train station. A train ride to Cologne, which is the largest city in the region, takes one hour and ten minutes and will be covered by the semester ticket, which is included in the semester fee. Students will be able to find affordable accommodation in Gummersbach and focus on their studies in the great environment of a modern campus.

The Leverkusen campus is located 15 km north of Cologne in the Neue Bahnstadt Opladen and was opened in 2022. It is close to the CHEMPARK in Leverkusen, which is one of the largest chemical parks in Europe. Global players from the chemical and pharmaceutical industry, such as Bayer and LANXESS, are located there. With 160,000 inhabitants, Leverkusen is a smaller industrial city that has plenty of opportunities for relaxation, thanks to its location in the foothills of the Bergisches Land region. In Leverkusen, you can find urban buzz and village-like tranquillity in close proximity. The campus can also be reached with TH Köln's semester ticket.

Contact

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Department of International Affairs

51643 Gummersbach

 Course website: http://www.master-ait.de/content/index_eng.html

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

 <https://de.linkedin.com/school/cologne-university-of-applied-sciences/>

 https://www.instagram.com/th_koeln/

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International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

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German Academic Exchange Service

Section K23 – Information on Studying in Germany

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D-53175 Bonn

www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

Disclaimer

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