



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## MSc Artificial Intelligence

Technical University of Applied Sciences Würzburg-Schweinfurt (THWS) •  
Würzburg



## Overview

Degree	Master of Science in Artificial Intelligence
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	All courses are held in English.
Programme duration	3 semesters
Beginning	Summer semester
Application deadline	15 October - 15 December for the following summer semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The objective of this English-taught programme is to teach intensive application-oriented knowledge in the field of artificial intelligence (AI), thus educating AI experts who are familiar with the relevant algorithms, models and social challenges of AI, and who can develop and evaluate software systems with AI functionality.</p> <p>The Master's programme extends over three semesters and provides profound knowledge of AI as well as comprehensive competences for the implementation of AI methods and models in practice. For this purpose, practical projects are included into the programme and students are involved in the work within the AI laboratories at an early stage. By working in a laboratory environment, students gain an early and intensive insight into the methods of scientific work.</p> <p>Since the use of AI in everyday life leads to considerable changes in society, students also take courses on AI ethics, law and the sociological consequences of AI in order to be able to responsibly co-design the transformation process.</p> <p>Graduates of the Master's programme in Artificial Intelligence shall be empowered to advance (further) development of AI systems in science and research as well as in companies and other facilities, and also to help shape the methodological basics of AI.</p>

## Course Details

Course organisation	<b>Semesters 1-2:</b> Subject specific modules (e.g. Mathematical and Theoretical Foundations of AI, Learning of Structured Data, AI in Robotics, Knowledge Representation and Reasoning, Artificial Neural Networks and Cognitive Models, Trustworthy AI and AI Regulations)  <b>Semester 3:</b> Master's thesis & scientific seminar
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"><li>• International guest lecturers</li><li>• Language training provided</li></ul>
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	Yes

## Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	162.50 EUR including a semester ticket for free public transport in the city of Würzburg
Costs of living	700 to 850 EUR
Funding opportunities within the university	No

## Requirements / Registration

Academic admission requirements	<p>Entitled to admission to the Master's programme in Artificial Intelligence are persons with very good or good skills and knowledge in the area of computer science and/or mathematics documented through a relevant practice-oriented qualification based on science.</p> <p>The qualification shall be attested by a completed higher education degree of 210 credit points in accordance with the European Credit Transfer and Accumulation System (ECTS, hereinafter referred to as ECTS credits) and an overall grade of 2.5 or higher in the fields of computer science, mathematics or a related field of study completed at a German higher education institution or equivalent.</p> <p>Every qualification must be checked individually, depending on the educational background of</p>
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each student. For more information, please visit our website:  
<https://international.thws.de/en/thws-international/ways-to-thws/incoming-full-time-students/admission-requirements/>

#### Language requirements

We strongly recommend English language skills at level C1 (CEFR)!

Applicants must prove their English language proficiency at level B2 (CEFR). Applicants with an English-language university entrance qualification are considered to have the necessary language skills. Applicants with a German-language university entrance qualification must provide evidence of English language skills at level B2 (CEFR) on the basis of the university entrance qualification or a certificate within the scope of the application.

To ensure linguistic flexibility when communicating with other students and living in Germany, German language skills at level A2 are recommended. This must be proven by a corresponding certificate within 12 months after the start of the degree programme.

[Language entrance requirements: Technical University of Applied Sciences Würzburg-Schweinfurt \(thws.de\)](https://international.thws.de/en/thws-international/ways-to-thws/incoming-full-time-students/admission-requirements/)

#### Application deadline

15 October - 15 December for the following summer semester

#### Submit application to

Applications have to be submitted online via our application portal.

Additionally, we require a pre-evaluation of your university entrance qualification from uni-assist (VPD), APS or ZAST/ZAB. Please check our homepage for further information:  
<https://international.thws.de/en/thws-international/ways-to-thws/incoming-full-time-students/application/>

## Services

#### Possibility of finding part-time employment

In order to finance your living expenses during your studies, you can look for a student job. However, please note that your focus should always be on your studies.

**Students from non-EU countries** may work 120 full days or 240 half days per year. If you work as a student assistant at a university or a company, the amount of days may be higher.

**Students from EU countries:** There are no restrictions.

#### Accommodation

Several halls of residence are located in Würzburg within short distance to the campuses, which offer facilities such as furnished rooms, Internet connection, and common areas.

<https://international.thws.de/en/thws-international/ways-to-thws/formalities-and-finances/accommodation/>

#### Career advisory service

The International Career Service at THWS offers events and information for students in English. Our events help students with the following:

- studying successfully
- transitioning into professional life

In addition, we offer plenty of information about the following topics:

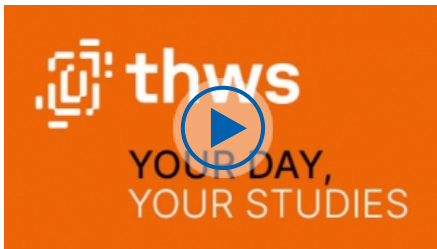
- application
- job interview

- links to online job portals

<https://international.thws.de/en/thws-international/ways-to-thws/international-career-service/>

Support for international students and doctoral candidates

- Welcome event
- Tutors
- Accompanying programme
- Specialist counselling
- Cultural and linguistic preparation



## THWS – Your Day, Your Studies

The complete guide to studies in fast motion

» more:

<https://www.youtube.com/watch?v=aCBWI8eCfe8>

# — Technical University of Applied Sciences — Würzburg-Schweinfurt (THWS)



## About THWS

The Technical University of Applied Sciences Würzburg-Schweinfurt (THWS) was established in 1971, with campuses in two locations in Würzburg and Schweinfurt. Today, the THWS is one of the largest universities of applied sciences in Bavaria (southern Germany). As a public university, we guarantee an excellent academic education recognised throughout the world.

## Course offerings

With its 10 departments and more than 40 undergraduate and postgraduate degrees, as well as six research institutes, the THWS offers a broad, practice- and future-oriented course programme. Within the THWS i-Campus concept, English-language Bachelor's programmes add to the wide range of German-language programmes. Courses take place in modern lecture rooms and laboratories equipped with innovative technology and state-of-the-art appliances.

## Low student-teacher ratio

Studying at THWS is characterised by small study groups and a low student-teacher ratio. Through a great share of seminar papers, students learn to work independently. Additionally, project work promotes the students' team-working abilities.

## Education with a special focus on application and practice

More than 200 professors with solid professional experience from industry and business provide scientific education with special relevance to application and practice. The university collaborates closely with regional and transregional businesses. Students benefit from this close collaboration by being able to do internships and having the possibility to write their Bachelor's theses in one of these companies. Moreover, they have the chance to build a network for their future careers.

## International focus

THWS excels due to its international orientation. For more than 30 years, the university has welcomed students from over 80 countries. Worldwide, THWS is associated with more than 230 universities.



## University location

### Located in Bavaria

The university's location in Würzburg is situated in one of the most beautiful regions of Germany. Franconia, in the northern part of the federal state Bavaria, offers high recreational value as a region of cultural and culinary delight. Due to the favourable geographic location. Würzburg is a perfect starting point to discover Germany and Europe. The international airports of Frankfurt am Main and Munich are within easy reach.

### City of Würzburg

Würzburg is an extremely vibrant student city. With approximately 133,000 inhabitants, it is one of the largest cities in the federal state of Bavaria. Lying amidst the vineyards, the climate in Würzburg is pleasant and mild all year round. Wine is part of the cultural heritage here – as proven by the many wine festivals in and around the city. Countless landmarks and places of interest characterise the cityscape: imposing Marienberg Fortress, the city's landmark, sits high upon a hill overlooking the city and bears testament to Würzburg's more than 1,000-year history. The sumptuous Würzburg Residence is one of the most significant palaces in Europe and a UNESCO World Heritage Site.

## Contact

### Technical University of Applied Sciences Würzburg-Schweinfurt (THWS)

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🌐 Course website: <https://mai.thws.de/en/>

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

🌐 <https://www.linkedin.com/groups/8554638/>

📷 <https://www.instagram.com/international.thws>

Last update 05.05.2024 22:11:38

# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry  
of Education  
and Research