**DAAD**

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

## INTERNATIONAL PROGRAMMES

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# Table of Contents

# Bachelor's degree

## Applied Artificial Intelligence

**Rosenheim Technical University of Applied Sciences • Rosenheim**

## Overview

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| **Degree** | Bachelor of Science |
| **Teaching language** | • English |
| **Languages** | All courses are held in English.<br><br>The Bachelor's thesis can be written in English or in German. |
| **Full-time / part-time** | • full-time |
| **Programme duration** | 7 semesters |
| **Beginning** | Winter semester |
| **Additional information on beginning, duration and mode of study** | This programme starts each year in the winter semester on 1 October. |
| **Application deadline** | 15 July for the following winter semester<br><br>Due to the visa processing time, it is strongly recommended that non-EU applicants submit their documents at the beginning of the application period (15 April). |
| **Tuition fees per semester in EUR** | None |
| **Joint degree / double degree programme** | No |
| **Description/content** | **Course contents:**<br><br>In order to transfer the potentials of artificial intelligence (AI) into practice, you will acquire competencies in software engineering and mathematics as well as comprehensive knowledge in the development of AI systems. A particular focus of the programme is on the mathematical understanding of the fundamentals and the application of the various AI approaches in practice. |

In seven semesters, you will thus acquire relevant professional competencies from computer science, mathematics and artificial intelligence as well as important key competencies and soft skills. Furthermore, you will learn how to deal with AI in a responsible manner.

In addition, the curriculum includes specialist-required elective modules (FWPM) from different disciplines out of computer science, mathematics and engineering. You can choose among these to develop your individual specialist skills you will need for your further studies or your career. At the end of the programme, you will be able to design, build, analyse and solve problems in many areas relating to artificial intelligence.

Besides the theoretical studies, you will work closely together with companies on various practical projects and are thus able to gain further professional experience.

**Study objective:**

Our goal is to train students to become AI experts with practical experience tested in hands-on situations. You will be able to:

- build bridges between specialist departments and IT experts,
- identify new AI-related topics, and
- successfully participate in and lead projects in AI.

Equipped with the right tools, our graduates can quickly integrate their hands-on knowledge in their day-to-day careers. You will:

- have a sound knowledge of the subject areas of AI,
- know the mathematical background,
- have the computer science skills to develop software solutions, and
- have practical experience from carrying out projects in collaboration with companies as well as from your practical semester.

This prepares you for employment in conceptual design, model development, and practical implementation (MLOps) as well as process consulting and decision-making.

**Online info sessions:**

Learn more about the Applied Artificial Intelligence programme and join our online info sessions! Register here: www.th-rosenheim.de/info-sessions.

# Course Details

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| **Course organisation** | This Bachelor's degree programme covers seven semesters. |
| | In the first four semesters, you will learn the fundamentals of artificial intelligence, computer science and mathematics. |
| | The fifth semester is a practical semester with 18 weeks of work experience at a company and two weeks of accompanying lectures. |
| | In the last two semesters, you will work on at least two practical projects in close collaboration with regional companies. |
| | The Bachelor's thesis is to be completed in the seventh semester. |
| | You can find a detailed overview of the different modules in the PDF file. |
| | ⧉ PDF Download |
| **International elements** | <ul><li>Language training provided</li><li>Projects with partners in Germany and abroad</li><li>Training in intercultural skills</li></ul> |

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| **Integrated internships** | • Internship at a company in the fifth semester<br>• Projects with regional companies within the greater Munich area |
| **Course-specific, integrated German language courses** | No |
| **Course-specific, integrated English language courses** | No |

# Costs / Funding

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| **Tuition fees per semester in EUR** | None |
| **Semester contribution** | 85 EUR student union fee per semester |
| **Costs of living** | Each student needs about **992 EUR per month** to cover living expenses, student accommodation, health insurance and other related costs in Rosenheim. We recommend calculating approx. 11,904 EUR per year in total.<br><br>**For international students from non-EU countries:**<br><br>Proof of financial resources / blocked account: With a blocked account, you can provide evidence that you have adequate financial resources during the visa application process. The presumed annual requirement that must be paid into the blocked account when applying for a visa amounts to 11,904 EUR. Please see the information from the Federal Foreign Office: www.auswaertiges-amt.de/en/visa-service/visabestimmungen-node/sperrkonto-seite. |
| **Funding opportunities within the university** | No |

# Requirements / Registration

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| **Academic admission requirements** | A general or subject-specific **higher education entrance qualification** is sufficient to qualify for the study programme. Check whether you are eligible to apply at the DAAD database on admission requirements.<br><br>For the application, you must prove your higher education entrance qualification with a **preliminary review documentation / "Vorprüfungsdokumentation" (VPD)** from **uni-assist**. You can apply for a VPD at **www.uni-assist.de/en/**.<br><br>It takes approximately four to six weeks until you will receive your result. Please take this into account when planning your application.<br><br>More detailed information on the admission requirements is available at www.th-rosenheim.de/information-sheets. |
| **Language requirements** | In order to apply for the programme, you will need a language level of **German A2** and **English B2** according to the CEFR. |

The following apply as **proof of the required German language skills**

- German language diploma DSD level 1 (level CEFR A2/B1) or higher
- Goethe certificate A2 or higher
- TELC certificate A2 or higher
- ÖSD certificate A2 or higher
- German language test for university admission DSH 1 or higher
- Test of German as a Foreign Language TestDaF TDN 3 or higher
- Passed German courses at a university in Germany with a minimum of 4 ECTS credits at level A2 or higher according to the CEFR
- Certificate of the examination to determine the suitability of foreign study applicants for the admission to a course of study at a university in the Federal Republic of Germany (assessment test)
- Completed German-language Bachelor's or Master's degree programme
- Completed German studies in Germany or abroad
- German at level A in the final certificate of the International Baccalaureate Diploma Programme

Applicants whose native language is German are exempt from providing proof of sufficient German language skills.

The following **English language tests** are recognised:

- Internet-based TOEFL with a score of 72 points or higher
- TOEIC with 785 points or more
- IELTS with band 6.0 or higher
- Cambridge CEFR B2 First (FCE) with grade C (min. 160 points) or higher
- Cambridge CEFR C1 Advanced (CAE) with level B2 (min. 160 points) or higher
- TELC certificate English B2 or higher
- Pearson PTE Academic, 60 points or higher
- At least six years of school English with at least the grade "sufficient" in the senior year, evidenced by a German language university entrance qualification or an equivalent, recognised university entrance qualification from a non-German school
- Completed English-language Bachelor's or Master's degree programme
- Completed English language studies in Germany and abroad
- A grade of at least "good" in the Technical English module or a comparable English module from the previous German-language degree programme

Applicants whose native language is English are exempt from providing proof of sufficient English language skills.

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| **Application deadline** | 15 July for the following winter semester<br><br>Due to the visa processing time, it is strongly recommended that non-EU applicants submit their documents at the beginning of the application period (15 April). |
| **Submit application to** | Application is possible via our **online application portal.** |

# Services

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| **Possibility of finding part-time employment** | A limited number of student jobs are available at TH Rosenheim (e.g. for lab work, research projects or other support functions). Students can find part-time jobs at regional companies or in Munich, which is a 35-minute train ride from Rosenheim. Basic knowledge of the German language significantly improves your chances of getting a student job.<br><br>**Online job market at TH Rosenheim:**<br>You will find job postings on the internal online job market at TH Rosenheim.<br><br>**Bavaria-wide job exchange:** |

You will also find interesting job offers at: https://jobboerse.th-rosenheim.de/index.php/en.

**More helpful tips:**
Our website also provides practical advice about working in Bavaria, Germany: https://www.th-rosenheim.de/en/international/incomings/general-information/working-in-bavaria.

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| **Accommodation** | **Munich Student Union halls of residence:**<br><br>Fall out of bed and into your lecture hall – thanks to the Munich Student Union, this is possible for students in Rosenheim. The student service provider runs two halls of residence here with a total of 345 spaces. Student rooms for international students are available on a first-come, first-served basis. Room rates are around 300 EUR per month. However, room reservations can only be made after being admitted to your degree programme in Rosenheim. Information for students looking for accommodation can be found at: www.studentenwerk-muenchen.de/en/accommodation.<br><br>**Private rooms:**<br><br>Further information regarding accommodation in Rosenheim is available at:www.th-rosenheim.de/housing. |
| **Career advisory service** | **Applying for jobs and starting your career:**<br><br>The Career Centre provides students and graduates with information and advice on applying for jobs, career planning and starting out in the world of work.<br><br>**Workshops for international students, e.g.:**<br><br>• What's important to stand out from the crowd?<br>• Written applications and interviewing<br>• Individual CV check & counselling<br><br>International students who need assistance with writing applications have the chance to arrange individual appointments in English and German. |
| **Support for international students and doctoral candidates** | • Welcome event<br>• Tutors<br>• Cultural and linguistic preparation |
| **General services and support for international students and doctoral candidates** | **Services for international students:**<br><br>TH Rosenheim offers a variety of services, such as German language courses, language tandems and student tutors who assist with everyday university life, to ensure that international students feel at home in Rosenheim. To find out more, please have a look at www.th-rosenheim.de/welcome.<br><br>**International Student Committee (StuPa):**<br>Meet with interesting people from different cultures, exchange intercultural experiences or simply meet new people and have fun. |
| **Supervisor-student ratio** | Good professor-student ratio, small groups |

## What It's Like Studying Applied Artificial Intelligence at TH Rosenheim

Are you interested in artificial intelligence? Our Applied Artificial Intelligence Bachelor's degree programme is designed for students who want to understand how AI techniques and technologies work and how they can be implemented in real IT systems and business applications. The degree programme includes content in the area of machine learning, data science, deep learning and computer vision.

» more: https://www.youtube.com/watch?v=A4sccdvWlAU

# Rosenheim Technical University of Applied Sciences



S-Building (Rosenheim Technical University of Applied Sciences)

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**Rosenheim Technical University of Applied Sciences (TH Rosenheim):**To study at Rosenheim Technical University of Applied Sciences (TH Rosenheim) is to study in one of Germany's most beautiful and economically attractive regions. With its high-quality and wide-ranging selection of degree programmes, excellent studying conditions, close links with industry and research, and a strong practical connection, our university offers a promising outlook – for studying, leisure time and careers. To help international students feel at home, the university offers a variety of services, such as German language courses and tutors assisting with everyday university life.

**Five USPs for studying at TH Rosenheim:**

- No tuition fees for regular Bachelor's and Master's degree programmes
- Practice-oriented education with more than 100 laboratories
- A welcoming atmosphere with close contact between lecturers and students
- German language courses and career workshops for free
- Mountains on the horizon and leisure activities at every turn



## 📍 University location

**Rosenheim** is located in the south-eastern part of the German state of Bavaria. Situated in between the three larger cities of Munich, Salzburg and Innsbruck, it is the centre of a prospering economic region with a population of about 100,000 inhabitants. The Bavarian capital of Munich is only 30 minutes away by train and offers a lot of very attractive companies and job opportunities.

Studying at the Rosenheim campus means studying in beautiful surroundings in one of the most attractive regions in Germany – particularly in terms of quality of life and recreational activities. The Rosenheim campus is located in the city centre, just a 20-minute walk from the main station, and even has its own train stop. Art, tradition and culture can be found everywhere in Rosenheim.

If you like nature and outdoor activities, you are just a stone's throw from the mountains and lakes where you can go hiking, swimming, sailing, skiing and much more. Chill out at the beach bar on Lake Chiemsee and enjoy beautiful sunsets on top of Germany's highest mountains.

# Contact

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Faculty of Computer Science

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🌐 Course website: https://www.th-rosenheim.de/en/studies-and-further-education/courses-of-study/bachelors-degree-programmes/applied-artificial-intelligence?mtm_campaign=DAAD%20International%20Programmes&mtm_kwd=B-AAI

Ⓕ https://www.facebook.com/throsenheiminternational

ⓘ https://www.linkedin.com/school/th-rosenheim/

Ⓘ https://www.instagram.com/throsenheim_international/

▶ https://www.youtube.com/user/HochschuleRosenheim

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# International Programmes in Germany - Database

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Federal Ministry of Education and Research