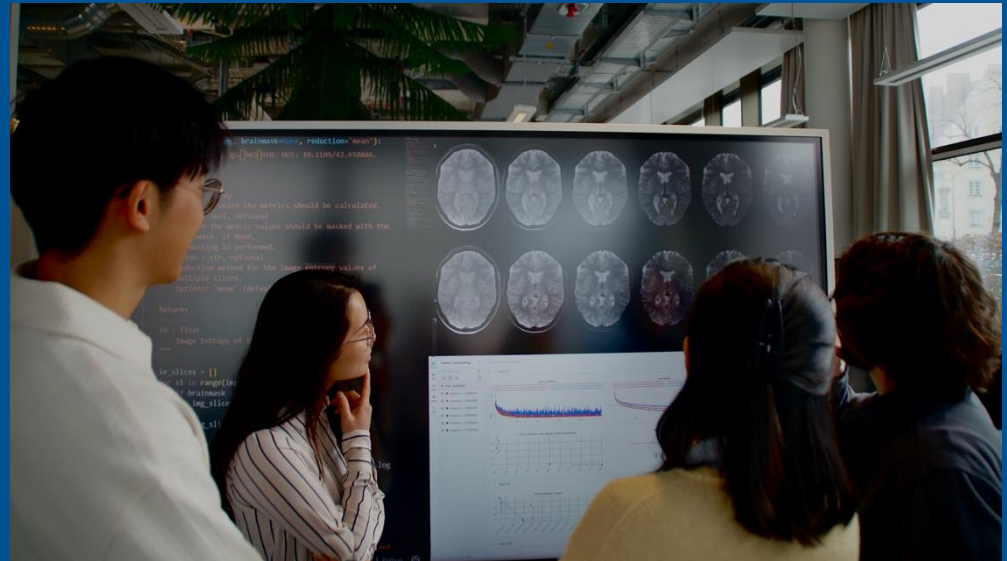


M.Sc. AI in Biomedicine

TUM Master's Days | March 26th, 2026



Who are we?



Hannah Eichhorn
Program Coordinator



Antonia Striegan
Program Administrator



Dr. Michael Ritter
CIT Student Management

About the program



The Elite Masters program AI in Biomedicine (AIBM) bridges the gap between **computer science, engineering & medicine**.

- Research-oriented **two-year program** (4 semesters, full-time)
- **Language of instruction:** English
- **Main location:** Garching bei München
- **Program start:** October 2026
- **Application period:** February 1 – May 31

More
information:



AIBM Faculty (School of CIT)

- Prof. Rückert (**Program Speaker**), **AI in Healthcare and Medicine**
- Dr. Menten, **AI in Healthcare and Medicine**
- Prof. Schnabel, **Computational Imaging and AI in Medicine**
- Prof. Navab, **Computer Aided Medical Procedures**
- Prof. Theis, **Mathematical Modelling of Biological Systems**
- Prof. Akata, **Interpretable and Reliable Machine Learning**



AIBM Faculty (other TUM Schools)

- Prof. Boeker, **Medical Informatics**
- Prof. Schuller, **Health Informatics**
- Prof. Wachinger, **Artificial Intelligence in Radiology**
- Prof. Roth, **Machine Intelligence in Orthopedics**
- Prof. Schüffler, **Computational Pathology**
- Prof. Müller, **Science & Technology Policy**



AIBM Faculty (FAU)

- Prof. Ganslandt, **Medical Informatics, Biometry and Epidemiology**
- Prof. Hutter, **Smart Imaging and Data Profiling**
- Prof. Kainz, **Image Data Exploration and Analysis**
- Prof. Maier (Program Co-Speaker), **Pattern Recognition**
- Prof. Müller, **Theory and Ethics of Artificial Intelligence**
- Dr. Pérez-Toro, **Pattern Recognition**



Cooperation & Interdisciplinarity



In cooperation with Friedrich- Alexander-Universität
Erlangen-Nürnberg (FAU)



Funded by Elite Network of Bavaria



(Inter)national industry & academic collaborations

Career Prospects

- After the AIBM program, you have:
 - Interdisciplinary expertise in the field of AI in healthcare and medicine
 - Knowledge to critically assess ethical, legal & societal implications of AI in biomedicine
- Contribute to the development of innovative, responsible & impactful AI solutions in the biomedical domain



- Cutting-edge research in academia and industry
- Roles in startups, policy-making and global health innovation

AIBM Program Overview

Semester 1 (WiSe, 30CP)	Semester 2 (SoSe, 30CP)
Applications of AI (5 CP)	Applications of AI (10 CP)
Cross-cutting Themes (7 CP)	Cross-cutting Themes (7 CP)
Foundations of AI (18 CP)	Foundations of AI (13 CP)



AIBM Program Overview

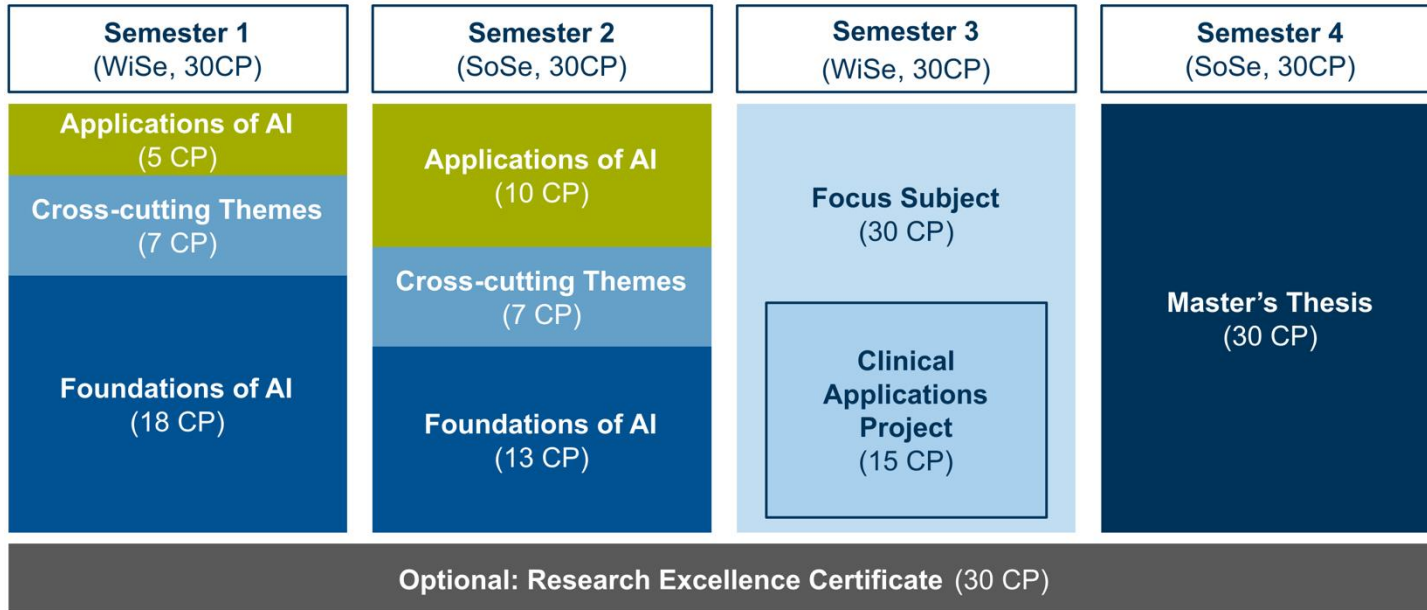
Semester 1 (WiSe, 30CP)	Semester 2 (SoSe, 30CP)	Semester 3 (WiSe, 30CP)
Applications of AI (5 CP)	Applications of AI (10 CP)	Focus Subject (30 CP)
Cross-cutting Themes (7 CP)	Cross-cutting Themes (7 CP)	
Foundations of AI (18 CP)	Foundations of AI (13 CP)	
		Clinical Applications Project (15 CP)

Focus subjects:

- Advanced Machine Learning
- Drug Discovery and Computational Biology
- Imaging and Sensing
- Natural Language Processing and Speech



AIBM Program Overview



Application – Required Documents

1. **Passport**
2. **CV**
3. **Preliminary Documentation (VPD) issued by Uni-Assist** (required for degrees from outside Germany)
4. **APS – Certificate of the Academic Evaluation Center** (required for degrees from Chinese, Vietnamese or Indian universities)
5. **English Language Proficiency** (language certificate or language of instruction of Bachelor's program)
6. **Transcript of Records** (min. 140 ECTS) & **Module Catalog**
7. **Curriculum analysis***
8. **Statement of purpose***
9. **Essay***

Required qualification:

- B.Sc. in Computer Science
- B.Sc. in Electrical and Computer Engineering

* Templates on website



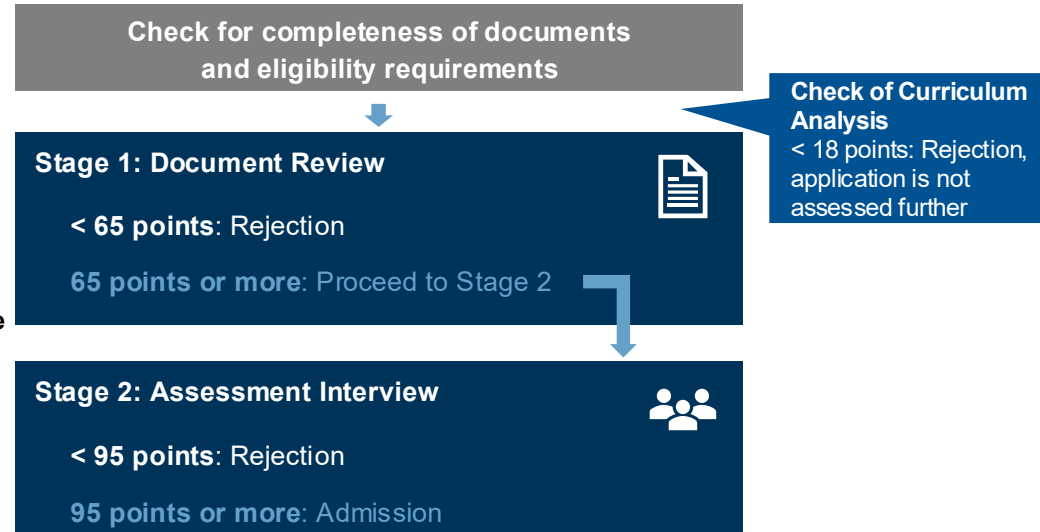
Questions about documents? → [check the Glossary of Documents for clarifications](#)

Application – Assessment Process

- Initial check by central department
→ questions about formalities to studium@tum.de
- Stage 1: max. points per area
 - Curriculum analysis: 35
 - Grade average: 30
 - Statement of Purpose: 20
 - Essay: 15
- Stage 2:
 - Interview period: May – September
 - Applicant receives invitation at least 1 week in advance
 - Online, in English, 20-30 minutes
 - Points for Curriculum analysis and grade average count into the score
 - Max. points for interview itself: 65

Assessment process for M.Sc. AI in Biomedicine

Application Period: February 1 – May 31



Time for questions ...

M.Sc. AI in Biomedicine

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Our website:

