The future starts here! Ready for a journey into the world of innovation? Welcome to the Bachelor’s degree program in AI Materials Technology at the renowned Friedrich-Alexander-Universität Erlangen-Nürnberg!
Smart technology now surrounds us everywhere, and the development of artificial intelligence (AI) is progressing at an unprecedented speed. AI engineers who work in companies at the interface between technical implementation and computer science are already among the most sought-after specialists in leading companies.The Bachelor’s degree course in AI Materials Technology combines the best of materials science and computer science, creating a completely new and important field of training for young people who are interested in both technology and programming. Graduates of this degree course are able to investigate the properties of materials and develop them further in line with the requirements of the future. The focus is on combining hybrid AI and materials science to find solutions for material-specific challenges. Whether it is the development of more environmentally friendly and efficient solar cells, research into lightweight materials or the optimization of recycling processes – AI materials technologists are in demand.
Are you interested in how the materials of the future can make our world more sustainable? Or what contribution materials can make to medical technology and the energy transition? These and many other questions are addressed in the AI Materials Technology degree course. It provides the necessary knowledge to develop materials for a wide range of applications, from microchips and lifestyle products to artificial heart tissue.
The range of possible applications in AI materials technology extends across almost all manufacturing industries. This is why more and more industries are looking for professionals in the field of applied AI. Materials are omnipresent and keep the world running. Constantly developing and improving these materials is imperative to enable the important combination of innovation and sustainability. KI-Materials Technology focuses on applying the findings of materials science in novel ways to make technology and research more efficient and economical.

Bewerbung für zulassungsfreie Studiengänge
FAU - Moving Knowledge
The AI Materials Technology degree course offers a broad and at the same time specific education that includes various specializations. The focus here is on materials science and computer science, although mathematics and the fundamentals of physics are also represented.
The laboratory practicals that accompany your studies allow you to apply the theoretical knowledge from the lectures in practice right from the start. This allows you to deepen your understanding of your subject areas and acquire important skills such as problem-solving and scientific writing. In the horizon broadening module, you can think outside the box and incorporate an industrial internship or a stay abroad into your studies, for example, according to your interests. This practical approach allows you to apply theory in concrete situations and prepare you optimally for the demands of the job market. After completing your Bachelor’s degree, you will have the opportunity to deepen your knowledge in the Master’s degree program.
Would you like to actively help make the world a better place? Are you interested in future topics and have a healthy scientific curiosity? Are computer science, technical contexts and questions of applied science your thing? Then you’ve come to the right place!

Graduates of this degree program are sought-after experts of the future in research and development departments, production, processing, quality assurance, technical sales and management. Your skills in AI materials technology will open doors to almost all branches of industry, particularly in relation to advanced technologies and products.
In the AI Materials Technology course, we attach great importance to interdisciplinary training and the integration of computer science and applied artificial intelligence in the field of materials science.
30.09.
The language of instruction for this course is German. A very good knowledge of German (approximately level C1/C2) is therefore an essential prerequisite for successful study with us.
Our Student Advice and Career Service (IBZ) is the central point of contact for all questions about studying and starting a degree programme. Our Student Service Centres and subject advisors support you in planning your studies.

Degree: Bachelor of Science (B.Sc.)
Duration of studies in semester: 6
Start of degree program: Winter semester
Study location: Erlangen
Number of students: 250-600
Subject group: Engineering sciences
Teaching language: completely in German
Admission Requirements: No Admissions Restrictions
Admission requirements (first semester): No Admissions Restrictions
Application deadline winter semester: 30.09.
German language skills for international applicants: DSH 2 or equivalent
General language skills: The language of instruction for this course is German. A very good knowledge of German (approximately level C1/C2) is therefore an essential prerequisite for successful study with us.