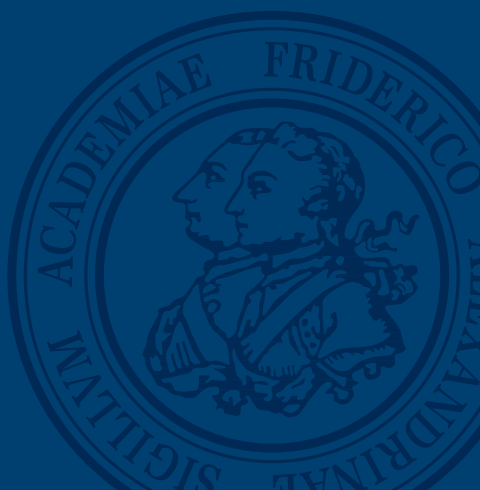




FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

At a glance





MODERN BY TRADITION

- 1743** Friedrich University founded by Margrave Friedrich von Bayreuth
- 1769** The University is named Friedrich-Alexander University in honour of its patron Margrave Alexander von Ansbach und Bayreuth
- 1824** University hospital opened
- 1928** Faculty of Sciences founded
- 1961** Integration of the Nuremberg Commercial College as the Faculty of Economics and Social Sciences
- 1966** Foundation of the Faculty of Engineering- the first faculty of applied engineering in Germany at a traditional university
- 1972** Integration of the Teacher Training College in Nuremberg as the Faculty of Education Science
- 2006** Opening of the Institute for New Materials and Process Technology- the first FAU institute in Fürth
- 2007** The University is restructured into 5 faculties
- 2009** Max Planck Institute for the Science of Light founded
- 2010** FAU Busan Campus established in South Korea
- 2013** Helmholtz Institute for Renewable Energies founded

www.fau.eu/university/history/

ADVANCE THROUGH NETWORKS

Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is one of the largest universities in Germany and a top research university. Research and teaching at FAU is interdisciplinary and interfaces exist between Natural Sciences, Engineering, Medicine, Cultural Studies, Humanities, Social Sciences, Education Sciences, Economics, and Law. In the spirit of 'Advance through Networks', the faculties and departments work together to create a virtually unparalleled range of interdisciplinary degree programmes.

- 38,000** students
- 13,000** staff
- 653** professorships
- 25** clinical departments
- 24** Interdisciplinary Centres
- 5** DFG Collaborative Research Centres
- 5** DFG CRC/Transregios
- 24** DFG Research Groups
- 10** DFG Research Training Groups
- 28** DFG Priority Programmes
- 1** Cluster of Excellence
"Engineering of Advanced Materials"
- 1** Graduate School
"Advanced Optical Technologies"



THE UNIVERSITY AT A GLANCE

Faculty of Humanities, Social Sciences, and Theology

Classical World and Asian Cultures
English, American and Romance Studies
Fachdidaktiken
German Studies and Comparative Studies
History
Islamic Religious Studies
Media Studies and Art History
Education Science
Psychology and Sport Science
Social Sciences and Philosophy
School of Theology

Faculty of Business, Economics, and Law

School of Law
School of Business and Economics

Faculty of Medicine

25 clinical departments
17 institutes
19 autonomous departments

Faculty of Sciences

Biology
Chemistry and Pharmacy
Geography and Earth Sciences
Mathematics
Physics

Faculty of Engineering

Chemical Engineering and Bioengineering
Electrical Engineering, Electronics and Information Technology
Computer Science
Mechanical Engineering
Materials Science and Engineering



DEGREE PROGRAMMES

- 38,000** students
- 18,730** female students
- 6,185** first-year students (winter semester 2013)
- 4,900** graduates (2013)
- 239** degree programmes including
 - 68** Bachelor's degree programmes
 - 79** Master's degree programmes
 - 6** State Examination/Magister degree programmes
 - 85** teaching degree programmes
 - 32** degree programmes with an international focus, including **14** double degree programmes (taught partly in English)
 - 16** degree programmes taught in English (partly double degree programmes) and **9** degree programmes taught in other languages (including one double degree programme)
 - 5** Elite degree programmes
 - 3** international Graduate Schools in the Elite Network of Bavaria

FAU offers an extraordinary range of subjects with 239 degree programmes. Students experience research of the highest calibre right from the start of their degree programmes.

Several degree programmes reside at subject boundaries; some combine courses taught at different faculties and are strongly interdisciplinary in structure. These include: Molecu-

lar Medicine, Molecular Science, Mechatronics, Engineering Mathematics, Business Mathematics, Industrial Engineering and Cultural Geography. In addition, FAU offers degree programmes taught in English, including Chemical and Biological Engineering and Computational Engineering. Students also benefit from the practical focus of degree programmes in subject areas such as Chemical and Biological Engineering, Electrical Engineering, Mechanical Engineering, Computer Science, and Materials Science.

University services offer students ideal conditions for success during their studies: hardware and software supplied by the Erlangen Regional Computing Centre provides an optimal technical environment, whilst the University Library is one of the largest in Bavaria, with an almost inexhaustible supply of media for all disciplines and a valuable collection of old manuscripts. For students keen on learning or developing their foreign language skills, the Language Centre's range of languages is second to none.

The students at FAU shape the surrounding region culturally, socially and economically. They acquire specialist knowledge and academic expertise which they then feed back into educational institutions, industries, service providers and start-up businesses, as well as into the health service and administrative or communications-related industries. These well-trained and highly motivated FAU graduates are much sought after by employers in the Nuremberg Metropolitan Region, Germany and the wider world.



A SELECTION OF THE 156 DEGREE PROGRAMMES

Advanced Materials and Processes
Book Studies
Computational Engineering
German and French Law
Electrical Engineering, Electronics and Information Technology
French Romance Studies
Earth Sciences
Teaching
Information and Communication Technology
Japanese Studies
Art History
Computational Linguistics
Medicine
Nordic Philology
Organisation Development and Human Resources
Pharmaceutics
Law
Social Economics
Theatre and Media Studies
Industrial Engineering and Management
Dentistry

www.fau.eu/studying/degree-programmes/

RESEARCH

- 1** Cluster of Excellence and **1** Graduate School in the German Excellence Initiative
- 10** DFG Collaborative Research Centres and Transregios
- 24** DFG Research Groups
- 10** DFG Research Training Groups
- 28** DFG Priority Programmes
 - 1** Max Planck Institute for the Science of Light
 - 1** International Max Planck Research School
 - 2** Fraunhofer Institutes
 - 1** Helmholtz Institute for Renewable Energies
 - 8** Bavarian Research Associations
 - 1** International Research Centre funded by the Federal Ministry of Education and Research
- 160** million euros in third-party funding (2012)
- 687** doctorates awarded (2012)
- 62** post-doctoral habilitations (2012)



The success of FAU is based on research that continually crosses boundaries between concepts, subjects, institutions and countries. High-profile national and international academic awards as well as excellent placements in research rankings are proof of its research achievements. With 160 million euros in third-party funding (2012), FAU has a leading position among German universities in terms of attracting funding from both public and private benefactors of academia and research.

In line with the University's guiding principle 'Advance through Networks', each of the eight inter-faculty Major Research Areas (see list on page 12) brings together at least 30 professorships and many diverse research units in order to transcend traditional subject boundaries.

In the fields of biomedicine, technology and the sciences, FAU has a particularly strong research constellation. Ten DFG Collaborative Research Centres and Research Units, and the majority of the University's 24 DFG Research Groups (of which FAU is often the co-ordinating university) are actively engaged in outstanding research in these fields. Eight Research Training Groups for excellent young researchers cover topics as diverse as comparative cultural studies and the development of new high temperature materials. The Erlangen Graduate School in 'Advanced Optical Technologies' and the Cluster of Excellence 'Engineering of Advanced Materials' represent FAU success stories within the DFG Excellence Initiative.

Numerous joint ventures involving partnerships between companies and FAU guarantee the rapid transfer of research results. This applies in particular to progress in molecular biomedicine and medical engineering, expertise for advanced materials and efficient production processes, and basic research for growth industries such as electronics and information technology, or optics and optical technologies. The Max Planck Institute for the Science of Light in Erlangen, the International Max Planck Research School 'Optics and Imaging' and International Audio Laboratories in Erlangen are among the high calibre research institutions close to FAU.

FAU works with numerous companies in collaborative applied research. The University has enjoyed a long-standing cooperation with Siemens AG, which has contributed to the development of the Leading Edge Cluster 'Medical Valley' financed by the Federal Ministry of Education and Research (BMBF).

With the Emerging Fields Initiative (EFI), FAU is moving in a new and promising direction. This funding programme assists interdisciplinary projects showing high potential from their early stages onward, thus allowing FAU to react to emerging research challenges quickly, effectively and with the minimum amount of bureaucracy. In doing so, FAU is in a position to attract outstanding researchers and strengthen alliances with high-ranking partners. FAU currently supports 18 projects through the EFI.



Major Research Areas

Faculty	Humanities, Social Sciences, and Theology	Business, Economics, and Law	Medicine	Sciences	Engineering	
Major Research Areas				New Materials and Processes		
			Optics and Optical Technologies			
			Molecular Life Science and Medicine			
			Medical Engineering			
		Electronics, Information and Communication				
		Energy, Environment and Climate				
		Language – Culture – Region				
		Cohesion – Transformation – Innovation in Law and Economics				



CENTRAL RESEARCH INSTITUTIONS

- Institute of Advanced Materials and Processes
- Centre for Area Studies
- Centre for Applied Ethics and Science Communication
- Central Institute of Healthcare Engineering
- Centre for Teacher Education
- Centre for Scientific Computing
- Central Institute for Anthropology of Religion(s)

[www.fau.eu/institutions-and-services/
central-institutions.shtml](http://www.fau.eu/institutions-and-services/central-institutions.shtml)

INTERDISCIPLINARY CENTRES

Cutting-edge research often requires a level of cooperation that goes beyond the boundaries of each individual faculty or subject. In order to facilitate, intensify and consolidate this type of co-operation, FAU has established interdisciplinary centres which promote and develop a network of connections between fields of research.

Interdisciplinary Centre for

- Public Health
- Islamic Religious Studies
- Gerontology
- Dialectology and Language Variation
- Classical and Ancient Studies
- European Medieval and Renaissance Studies
- Lexicography, Valency and Collocation
- Interface-Controlled Processes
- Clinical Research
- Aesthetic Education
- Literature and Contemporary Culture
- Molecular Materials
- Labour Market and Workplace Studies
- Embedded Systems
- Preventative Medicine in Ophthalmology and Imaging Edition Philology
- Neurosciences
- Media Studies
- Emmy Noether Centre for Algebra with a special focus on Representation Theory
- Erlangen Centre of Plant Science
- Erlangen Catalysis Resource Centre
- Erlangen Centre for Infection Research
- Medical Immunology Campus Erlangen (MICE)
- Emil Fischer Centre



ENDOWED CHAIRS AND PROFESSORSHIPS

GfK Endowed Chair of Marketing Intelligence, GfK-Nürnberg e.V., Chair of Empirical Microeconomics (Endowed chair), Bundesagentur für Arbeit, Chair of Labour Economics (Endowed chair), Bundesagentur für Arbeit, Endowed Professorship for Human Resource Management and Task Management in Technology-orientated Companies, Audi, Theo and Friedl Schöllner Endowed Professorship for Clinical Geriatric Nutrition, Theo und Friedl Schöllner-Stiftung, Endowed Professorship for Orthopaedic and Rheumatological Rehabilitation, Landesversicherungsanstalt Oberbayern, Junior Professorship for Chronic Inflammatory Bowel Diseases, Department of Medicine 1 – Gastroenterology, Pneumology and Endocrinology, AbbVie Deutschland GmbH & Co. KG, W1 Endowed Junior Professorship for Molecular Endoscopy, Department of Medicine 1 – Gastroenterology, Pneumology and Endocrinology, Pentax Europe GmbH, Endowed Professorship for Clinical and Experimental Nutritional Medicine, Nestlé and GHD, Professorship for Palliative Medicine (Endowed chair), Deutsche Krebshilfe 'Palliative Medicine', Endowed Professorship for Paediatric Endocrinology, Pfizer, Professorship for Computational Medicine, Phoniatrics and Paediatric Audiology, DFG Research Professorship, Endowed Professorship for Nanomedicine, Else Kröner-Fresenius-Stiftung, Endowed Professorship for Neurological Rehabilitation, Medical Park AG, Professorship for Neuroimmunology, Novartis, Henriette Schmidt-Burkhardt Chair of Food Chemistry, Henriette Schmidt-Burkhardt,

Junior Professorship for Mathematic Optimisation, Endowed Professorship, Cluster of Excellence, Professorship for Theoretical Physics, Endowed Professorship, Cluster of Excellence, Junior Professorship for Experimental Physics (Raster Electron Microscopy) Endowed Professorship, Cluster of Excellence, Professorship for Physics (SAOT), Endowed Professorship, Excellence Initiative, Max Schaldach Endowed Professorship for Biomedical Engineering, Biotronik SE & Co. KG, Chair for Experimental Physics, Alfred Krupp von Bohlen and Halbach Professorship, Fraunhofer-Gesellschaft, Fraunhofer IIS, Endowed Professorship of Flavour Research, Fraunhofer-Gesellschaft, Junior Professorship for Optofluidics, Endowed Professorship, Excellence Initiative, Professorship for the Characterisation of Nanomaterials (Scatter Methods) CENEM, Endowed Professorship, Excellence Initiative, Professorship for Digital Communications, funded internally by FAU from the Alexander von Humboldt Professorship (Prof. Robert Schober), Professorship for Audio Coding, Fraunhofer-Gesellschaft – International Audio Laboratories Erlangen – AudioLabs, Professorship for Audio Signal Analysis, Fraunhofer-Gesellschaft – International Audio Laboratories Erlangen – AudioLabs, Professorship for Semantic Audio Processing, Fraunhofer-Gesellschaft – International Audio Laboratories Erlangen – AudioLabs, Professorship for Perception-Based Spatial Audio Signal Processing, Fraunhofer-Gesellschaft – International Audio Laboratories Erlangen – AudioLabs, Professorship for Audio Coding, Fraunhofer-Gesellschaft – International Audio Laboratories Erlangen – AudioLabs, Professorship for Speech Coding, Fraunhofer-Gesellschaft – International Audio Laboratories Erlangen – AudioLabs, Endowed Junior Professorship for Computer Science in Sports (Digital Sports), Adidas, Junior Professorship for Nanostructured Particles, Endowed Professorship, Excellence Initiative, Junior Professorship for Catalytic Materials, Endowed Professorship, Excellence Initiative, Professorship for Particle Synthesis, Endowed Professorship, Excellence Initiative, Junior Professorship for Micro-mechanics of Materials, Endowed Professorship, Excellence Initiative, Professorship for Nanoelectronics, Endowed Professorship, Excellence Initiative, Chair for Multiscale Simulation of Particulate Systems, Endowed Professorship, Excellence Initiative, Chair for Catalytic Reactors and Process Engineering, Endowed Professorship, Excellence Initiative, Endowed Chair in Information Technology (Communication Electronics)



INTERNATIONAL CONTACTS

- A total of 500 university partnerships in more than 70 countries, including 250 Erasmus student exchange agreements
- Around 1,000 visiting academics come to FAU from abroad each year
- 3,295 international students
- Staff from more than 90 nations

Friedrich-Alexander-Universität Erlangen-Nürnberg is part of an international network of universities and maintains close ties with 500 partner universities in more than 70 countries. FAU is also active in several large, international research co-operations and works closely with leading universities throughout the world. Friedrich-Alexander-Universität Erlangen-Nürnberg is one of the most attractive German universities for visiting academics from abroad. Every year more and more Humboldt scholars and prize-winning researchers choose to spend some time as a visiting academic at FAU.

Amongst the range of its international contacts, the ties between FAU and the Far East are particularly close. With the Busan Campus, FAU became the first German university to

establish a branch campus in South Korea and is now leading the way towards internationalisation. FAU is already making significant contributions to the transfer of knowledge and technology between Germany and South Korea.

Following the example set by the Goethe Institute, China has founded a Confucius Institute in the Nuremberg Metropolitan Region in co-operation with the University. FAU also co-ordinates the Bavaria California Technology Centre, and facilitates academic contacts with South America via the Bavarian University Centre for Latin America.



UNIVERSITY COLLECTIONS

FAU owns numerous collections covering a wide variety of disciplines. Some of them still play an important role in teaching and research today. Others are primarily of historical importance.

- Anatomical Collection
- Antique and Classical Collection
- Astronomical Collection
- Botanical Garden
- Ethnological Collection
- Herbarium Erlangense
- Geological Collection
- Computer Technology Collection Erlangen (ISER)
- Martius-Pharmacognostic Collection
- Medical Collection
- Master drawings –
FAU Collection of Prints and Drawings
- Mineralogical Collection
- Medical Mouflage Collection
- Collection of Musical Instruments
- Palaeontological Collection
- Pathological Collection
- History of School Education
- University Archive
- University Library
- Pre- and Early History
- Zoological Collection

www.sammlungen.fau.de

THE REGION

Both Erlangen with its population of 100,000, and the half-million strong metropolis of Nuremberg have their very own special charm. Opera, theatre and museums, cabaret and street performances and a vibrant night life offer diversity and excitement after a long day in a laboratory or library. Highlights among the events in Erlangen are the Audio Art Festival (Hörkunstfestival), Comic Salon, Poetry Festival (Poetenfest) and the student theatre festival, Arena. Countless cultural venues open their doors for the annual Blue Night in Nuremberg. Every other year, the research institutions in Erlangen, Nuremberg and Fuerth hold the 'Long Night of Sciences'. For those who enjoy outdoor activities, Fränkische Schweiz, a paradise for climbers and walkers, is right on our doorstep and water sports enthusiasts will find the Fränkische Seenland and the University's own watersports centre a temptation hard to resist.



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STUDYING, RESEARCH AND LIVING IS BEST AT FAU

The presence of Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) in all disciplines is key to the University's academic excellence. Thanks to the close collaboration of individual subjects, the University has succeeded in establishing innovative and internationally recognised key fields of research with its Major Research Areas. FAU also co-operates closely with many non-university research institutions and industry. As one of Germany's largest universities, it has a pioneering role in developing the technology of tomorrow.

At the University of Erlangen-Nürnberg, research and teaching go hand in hand. FAU students benefit from excellent study conditions and gain first-hand knowledge of state-of-the-art research in their subject. After their studies, FAU graduates have excellent prospects for successful professional and career development.

While having an international outlook, the University is also firmly rooted in the Nuremberg Metropolitan Region.