

Join Computer Science in Würzburg!



Why study in Würzburg?



A beautiful young city

Almost a quarter of inhabitants are students – Würzburg stays young, social and easy to join.
More than 25,000 students.



Research you can touch

JMU's educational ideal:
learning in direct contact with
internationally renowned research.
CAIDAS: The Center for Artificial
Intelligence and Data Science of
the JMU Würzburg



Heart of Europe

Central Germany, vineyards on the
Main, quick links to Frankfurt,
Nuremberg and Munich.



Admission-friendly

A comprehensive university.
The vast majority of subjects at
JMU are admission-free.



UNESCO Residenz



Benefits for Incoming Exchange Students



Lecture building at
Hubland Campus

Benefits for Incoming Exchange Students



No tuition fees

Semester contribution (currently ~€180) includes regional public transport and makes cafeteria meals cheaper.



Guaranteed housing

Partnership exchange students: Student Housing Service if you apply by January 15 (summer) / June 15 (winter).



Free German courses

Intensive courses in March/September plus in-semester classes. Language Centre is free for Exchange students.



Move around for free

The "Semesterticket" includes buses and trams in Würzburg and trains into the surrounding Mainfranken region.



Tutors & buddies

International tutors and faculty buddies help with arrival, enrolment and the first weeks.



First Steps & orientation

Welcome session, city tour, Pre First Steps online, and hybrid First Steps seminars before you arrive.



Leisure in Würzburg



Stadtstrand in summer
with view on the fortress.

Leisure in Würzburg



Outdoors & Sport

University Sports Center (from aikido to yoga); cycle, run or skate along the Main and through the vineyards. Don't miss "Professor Dallenberg": student code for the open-air pool.



Wine & Festivals

Weindorf on Market Square, wine in the Residenz gardens and Bürgerspital; Kiliani, City Festival, medieval fair at the fortress, crafts on the Alte Mainbrücke, Mozart Festival at night.



Music & Culture

Hochschule concerts, Europe's largest Africa Festival; Umsonst und Draußen Festival on the Main meadows. Mainfranken Theater; student stages; University Museum in the Residenz.



Nightlife

Sanderstraße and Münzstraße pub crawl; Old Harbour (floating club, Hafensommer); clubs on Nürnberger Straße.



Würzburg Dom in Winter



Computer Science degrees – Bachelor



Fortress Marienberg from
the river "Main"

Computer Science degrees – Bachelor

Institute of Computer Science. Bachelor teaching language: mostly German.



Computer Science

Programming, Algorithms & Data Structures, Software Engineering, Computer Systems, Computer Networks, Databases, Artificial Intelligence, Theoretical Computer Science, Mathematics, IT Security



AI and Data Science

Programming, Machine Learning, Data Science, Statistics, Data Analysis, Databases, Artificial Intelligence, Mathematics, Algorithms, Data Engineering. (This program is taught in **English!**)



Games Engineering

Game Engines, Game Development, Real-Time Systems, Game Labs, Computer Graphics, Mixed Reality, Immersive Systems, Interactive Technologies



Aerospace Informatics

Computer Science, Space & Aviation, Satellite Systems, On-Board Software, Robotics, Telematics, Avionics, Autonomous Systems



CS and Sustainability

Computer Science, Sustainable Computing, Energy-Efficient IT, Green IT, Environmental Informatics, Social Sustainability, Ethics & Responsible Technology



Human-Computer Interaction

Computer Science, Human-Computer Interaction, Interaction Design, User Experience, Human Factors, Psychology, Social Aspects, Usability



Computer Science degrees – Master



Computer Science building
at Hubland Campus.

Computer Science degrees – Master

Master programs can be studied in English. Various modules in German and in English available.



Computer Science

Algorithms & Theory, Software Engineering, Internet Technologies, Artificial Intelligence, Embedded Systems, Aerospace Technology, Human–Computer Interaction, Games Engineering, IT Security, Sustainability



Artificial Intelligence

Machine Learning, Knowledge & Reasoning, NLP, Computer Vision, Data Science, Human–AI Interaction, Robotics, AI Systems, AI Ethics & Safety, Mathematical Foundations



Aerospace Informatics

On-Board Processing, Avionics & Flight Systems, Space & Satellite Systems, Autonomy & Robotics, Telematics & Communications, Embedded Software, Simulation & Modeling, Engineering Foundations



Satellite Technology

Satellite Systems, Space Technology, Satellite Design, Communications, Aerospace Engineering, Spacecraft Engineering, Navigation & Control, Materials Science, Space Missions, Systems Engineering



Computational Humanities

Machine Learning, Cultural Data Analysis, Corpus Studies, Computational Literary Studies, Computational Musicology, Statistics & Research Design, Digital Editions, Cultural Heritage



Human-Computer Interaction

Interaction Design & UX, Human Factors, Immersive Interfaces, Multimodal Interfaces, ML for HCI, Human-Centered AI, Data Analysis, Interactive Systems, Applied HCI



M.Sc. Computer Science: (Elective) Key Areas



- Algorithm design, complexity theory, computational geometry, computational models.

Algorithms & Theory



- Software architecture, software quality, large-scale systems, development processes.

Software Engineering



- Mobile communications, web technologies, cloud computing, network protocols.

Internet Technologies



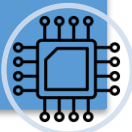
- Machine learning, reasoning, intelligent systems, data-driven methods.

Artificial Intelligence



- Real-time systems, hardware–software integration, IoT and cyber-physical systems.

Embedded Systems



- Space- and aviation-related computing, on-board systems, navigation, control.

Aerospace Technology



- Interaction design, usability engineering, user-centered systems.

Human–Computer Interaction



- Game development, graphics, simulation, interactive virtual environments.

Games Engineering



- Cryptography, secure systems, network security, privacy engineering.

IT Security



- Green IT, sustainable computing, energy-efficient algorithms and infrastructures, optimization for public transport.

Computer Science & Sustainability



How a semester at the Institute works

Computer Science building
at Hubland Campus.

How a semester at the Institute works

1

Choose your modules

Explore modules across *all Computer Science study programs* and build a semester that fits your interests.

2

Build Your Learning Agreement

Aim for 20–30 ECTS. Apply early for seminars and labs – places can be limited. Your academic advisor signs your final selection. No need to register for lectures.

3

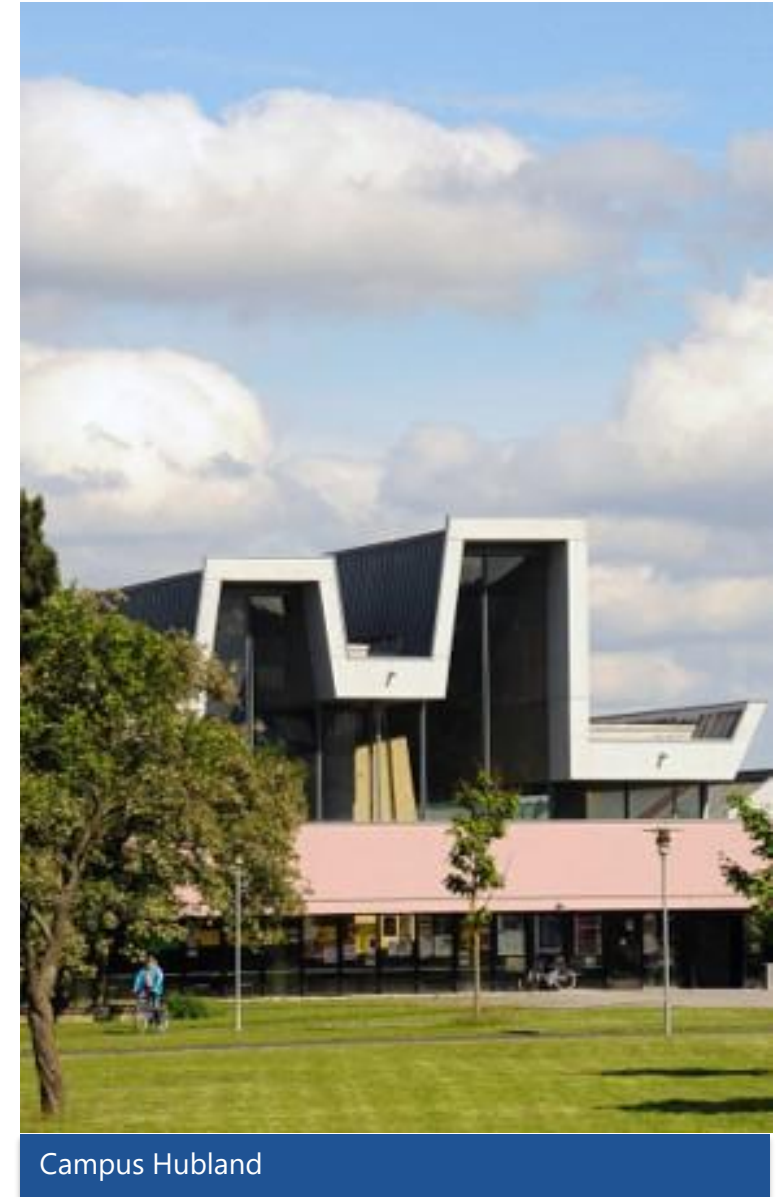
Apply & Get Ready

Exchange students: Apply through the International Office of your home university. Freemovers: Apply through our International Office.

4

Start Your Semester

Arrive in Würzburg, follow the first steps, and get ready for your studies in week 1. Exams are arranged directly with your lecturers.



Campus Hubland



Ready to join?



Institute of Computer Science

Study Computer Science
at the JMU Würzburg
Am Hubland, 97074 Würzburg



<https://www.informatik.uni-wuerzburg.de/en/studies/study-at-the-jmu-wuerzburg/>



International Office – Incoming

First Steps, housing,
German courses
Josef-Martin-Weg 55,
Hubland Nord



<https://www.uni-wuerzburg.de/en/international/studying-in-wuerzburg/join-us/>



FAQ

Learning agreements, enrollment,
exams, certificates



<https://www.informatik.uni-wuerzburg.de/en/studium/auslandssemester-an-der-jmu-wuerzburg/faq/>

