

EXPERIENCE THE FUTURE – FOR CHILDREN, TEENAGERS, AND CAREER STARTERS

Research rally

Children and teenagers can discover science on campus on their own. Follow  to find your way!

Experiments for budding young scientists in the institutes

All suitable experiments are listed on information panels in front of the buildings. 

JuLab Schools Laboratory and eXploregio.net

Hands-on experiments promise lots to learn and discover for young and old alike. (Building 04.11)
Come and join us!  

Your future career starts here – what’s on offer for young talent

Discover vocational training, university programmes, and career paths. (Buildings 04.7 and 04.11)

Lakeside stage

Be there for our science and experiment shows!

WE LOVE RESEARCH!

Do you share our enthusiasm for new things, for the exciting puzzles that nature presents us with, for discovering the smallest particles, and for developing big machines? What does groundbreaking research for a better future look like?

- Hydrogen as an example: What can this energy carrier actually do? How can it be produced in a climate-neutral way and where can it be used?
- The computing power of the future: What do the most powerful computers in the world calculate? How does a quantum computer work? What are computer scientists copying from the human brain?
- Climate change: How is the circular bioeconomy helping us to conserve resources? How can crops be made more resistant to increasing drought and aridity?

At Forschungszentrum Jülich, we are solving tomorrow’s questions today – together with strong regional, national, and European partners and in various networks. We make our research results ready for use in society, politics, and industry. We work closely with partners in industry so that our insights can be used to create new products or services that improve people’s lives.

Visit our campus on Open Day and see our scientists in action. At the end of the day, you might just find yourself saying: we love research!

POWERFUL COMPUTERS FOR RELIABLE AI

Artificial intelligence is already revolutionizing many areas of life. As one of the leading AI hotspots in Europe, we research with and on AI here at Forschungszentrum Jülich. We develop new, reliable AI models and are already exploiting its potential to solve complex problems.

Our scientists work on large AI models for images and language like OpenGPT-X, they refine AI models, and they verify that these are secure and reliable. Machine learning, for example, helps us to improve medical diagnostics, develop new climate models, and optimize materials for photovoltaics. Understanding the brain, weather forecasting, and analysing visitor flows at large events can be improved and accelerated using AI. A decisive basis for training complex AI algorithms and using them: our powerful supercomputers.

A central role will be played here by the JUPITER supercomputer. It is as powerful as a million modern smartphones and is one of the most powerful AI machines in the world.

Visit our AI campus and immerse yourself in the world of AI research at Jülich. Discover the many applications of artificial intelligence and take a look at the impressive machines we use to compute.

LAKESIDE STAGE PROGRAMME

The programme will be hosted by Esther Brandt and Johannes Döbelt.

10:00 Pés Quentes – Samba percussion from Düren
Drums, dancing, and a great atmosphere

10:15 Open Day – An overview
What’s happening where?

10:30 Pés Quentes – Samba percussion from Düren
Drums, dancing, and a great atmosphere

10:45 Baff! Science comedy
Interactive experiments that will see you laugh, marvel, and learn with Felix Homann

11:15 Paradise At Midnight
Energetic live music

12:00 AI against the audience
Who is cleverer? The science quiz show with Sascha Ott

12:30 Welcome address
Prof. Dr. Astrid Lambrecht
Chair of the Board of Directors of Forschungszentrum Jülich

13:00 Baff! Science comedy
Interactive experiments that will see you laugh, marvel, and learn with Felix Homann

13:30 AI against the audience
Who is cleverer? The science quiz show with Sascha Ott

14:00 Paradise At Midnight
Energetic live music

14:30 AI campus
Take a look: artificial intelligence up close

14:45 Baff! Science comedy
Interactive experiments that will see you laugh, marvel, and learn with Felix Homann

15:15 Pés Quentes – Samba percussion from Düren
Drums, dancing, and a great atmosphere

15:30 AI against the audience
Who is cleverer? The science quiz show with Sascha Ott

16:15 Paradise At Midnight
Energetic live music

17:00 End of stage programme

IMPORTANT INFORMATION

No registration is needed for Open Day.



No cars are allowed on campus on Open Day. (Exception: accessible parking).



Your four-legged friends have to stay at home.



Cyclists are very welcome on campus.



Free shuttle buses will run from 09:30 at regular intervals from various car parks in Jülich and the surrounding area to the main entrance (P1–P6, P12 & P13) or to the Hambach gate (P7–P11). The last shuttle bus is at 17:15.



Extra trains will service the RB 21 Rurtalbahn train line (train tickets required), running between the train stations in Düren or Linnich and the “Forschungszentrum” stop. Either walk from here (approx. 15 mins) or take one of the free shuttle buses to the main entrance of Forschungszentrum Jülich.



Wheelchairs are available from the representatives for persons with disabilities (in front of building 15.3).



Larger bags and backpacks will be searched at the campus entrances. Anyone carrying dangerous objects will be denied access to the campus.



Images and videos will be recorded at the event and may be used for public relations.



The collection point for lost people and lost property is at the visitors’ reception at the main entrance.



Further information is available at our information stands, on campus maps, and on the internet: www.tagderneugier.de/en or www.fz-juelich.de/en.
Forschungszentrum Jülich, Corporate Communications, tel: **02461 61-2121**, email: tagderneugier@fz-juelich.de, #TdN25 #TagDerNeugier



First aid/emergency services:
02461 61-77



Download the Open Day 2025 app today

(campus map, real-time navigation, information on the event, and push notifications on highlights)



www.tagderneugier.de/app



OPEN DAY
7 SEPTEMBER 2025
www.tagderneugier.de/en

10:00 to 17:00

In cooperation with:
WDR 5



- AI campus
- Info point
- Food
- Drinks
- Lakeside stage
- Research rally for children over 6
- Merchandise shop
- Accessible toilets
- Accessible parking
- Campus shuttle bus stop
- Campus shuttle bus
- Building entrance
- Lost property
Lost person collection point
- First aid
Emergency number: 02461 61-77



- 05.6 Hot times: understanding the changing atmosphere**
Troposphere (ICE-3)
- 05.6 How greenhouse gases are distributed globally**
Stratosphere (ICE-4)
- 06.2/06.4/06.12 How plants are changing**
Plant Sciences (IBG-2)
Bioeconomy Science Center (BioSC)
BioökonomieREVIER (BÖR)
- 15.4 Robotic development assistants for the lab ... and ACTION!**
Biotechnology (IBG-1)
- 15.8 Molecular bioinformatics: from the gene to the material**
Bioinformatics (IBG-4)
Computational Metagenomics (IBG-5)
- 15.13 Can chemistry tell left from right?**
Bioorganic Chemistry (IBOC)
- 15.21 Enzymes@Work – Biotech hands-on**
Molecular Enzyme Technology (IMET)
- 16.6 Healthy soil – the basis of life for all!**
Agrosphere (IBG-3)

- 01.3 Innovative materials for the energy transition**
Materials Synthesis and Processing (IMD-2)
- 02.16 Photovoltaics: see it, feel it, and try it!**
Photovoltaics (IMD-3)
- 03.1 Engineering for excellent science**
Institute of Technology and Engineering (ITE)
- 03.2 What opportunities does green hydrogen offer Africa?**
Jülich Systems Analysis (ICE-2)

- 03.2 Hydrogen and chemicals with renewable energy**
Electrochemical Process Engineering (IET-4)
- 04.3 The mystery of our existence – questions for particle physics**
Nuclear Physics (IKP)
- 04.7 Hydrogen moves the world – hop on!**
Corporate Development (UE)
- 04.7 Fully charged – the batteries of the future**
Ionics in Energy Storage (IMD-4/MI MS)
- 04.7 New hydrogen technologies for the Rhenish mining area**
Sustainable Hydrogen Economy (INW)
- 04.7 Smart energy systems of the future** AI
Energy Systems Engineering (ICE-1)
- 04.19 Cleverly connected: our energy campus**
Intelligent Campus (TB-X)
- 04.19 Our contribution to a sustainable future**
Strategy and Sustainability (UE-S)
- 10.14 Fusion as the energy of the future: the power plant of the stars**
Plasma Physics (IFN-1)
- 10.22 Energy and the future**
Fundamental Electrochemistry (IET-1)
- 14.6 A net-zero future with theory, simulations & AI** AI
Theory and Computation of Energy Materials (IET-3)

- 02.14 Small structures – large laboratory**
Helmholtz Nano Facility (HNF)
- 04.6 Is the brain better than a computer? AI in hardware** AI
Computational and Systems Neuroscience (IAS-6)
Peter Grünberg Institute (PGI)
Integrated Computing Architectures (ICA)

- 04.7 What does data competence have to do with my everyday life?**
Materials Data Science and Informatics (IAS-9)
- 04.8 Supercomputer seeks supermaterials**
Quantum Theory of Materials (PGI-1)
- 04.8 Quantum check – how we compute**
Peter Grünberg Institute (PGI)
Integrated Computing Architectures (ICA)
- 04.8 Making the invisible visible**
Neutron Scattering and Soft Matter (JCNS-1)
- 04.8 Scattered intelligence: discovering hidden patterns**
Quantum Materials and Collective Phenomena (JCNS-2)
- 05.2 Nano meets nosiness – electrons reveal the invisible**
Ernst Ruska-Centre, Physics of Nanoscale Systems (ER-C)
- 05.11 AI research: introduction and applications** AI
Data Analytics and Machine Learning (IAS-8)
- 15.22 From natural to artificial intelligence** AI
Computational and Systems Neuroscience (IAS-6)
- 16.4 Supercomputing is the future – AI, exascale, quanta** AI
Jülich Supercomputing Centre (JSC)

- 15.2 The miracle in your head: structure and function of the brain** AI
Structural and Functional Organization of the Brain (INM-1)
- 15.2 The brain in action!** AI
Cognitive Neuroscience (INM-3)
- 15.2 What your brain reveals about you** AI
Brain and Behaviour (INM-7)
- 15.14 Physical innovations in brain research** AI
Medical Imaging Physics (INM-4)

- 15.16 A look inside the brain – how and why?**
Molecular Organization of the Brain (INM-2)
JARA Institute Brain structure-function relationships (INM-10)
- 15.16 Radiant spies in the jungle of the brain**
Nuclear Chemistry (INM-5)
- 16.15 Protein playhouse: simulations, medicine, and AI** AI
Computational Biomedicine (INM-9)

- 04.7 Career at FZJ – join our team!**
Human Resources – Human Resource Development and Recruiting (P-E)
- 04.11 Experience science – help shape the future**
JuLab Schools Laboratory (SL)
- 04.11 Start your vocational training or dual study programme with us!**
Vocational Training Centre (P-Z)

- 04.1 A good meal before the research tour!**
Seecasino (M-SV)
- 04.3 Radiation, society, and environment**
Safety and Radiation Protection (GS)
- 04.7 Research café and photo exhibition**
Dialogue/interaction in the Central Library (ZB)
- 04.7 Publications – the currency of science** AI
Central Library (ZB)
- 04.7 Information on the rainbow network**
Equal Opportunities Bureau (BfC)
- 04.7 How project funding makes bold ideas bigger**
Project Management Jülich (PtJ)
- 09.2 Afraid of heights? AVR reactor: dismantling up close**
Jülicher Entsorgungsgesellschaft für Nuklearanlagen mbH (JEN)
- 12.11 The world of the Works Fire Brigade**
Works Fire Brigade (S-F)
- 14.5 Graphical Media – on campus; close to research**
Purchasing and Materials – Campus Service (M-S)
- 15.3 Representation for persons with disabilities fostering inclusion**
Representatives for persons with disabilities (SBV)
- 15.21 New laboratories and office space**
Planning and Building Services – Electrical Engineering (B-E)
- 16.15 Fun and games for children**
Sports Association (BSG)

- AI HANDS-ON** AI
Learn, discover, and discuss on our AI campus:
 - AI on stage, an entertaining programme featuring Jülich scientists
 - CUPITER – interactive insights into AI applications and research in our institutes
 - Hands-on AI for all ages
- Take a look at:**
 - Active matter and artificial intelligence**
Theoretical Physics of Living Matter (IAS-2)
 - Artificial intelligence in neuromedicine – a Jülich platform for networked data**
Brain and Behaviour (INM-7)
 - AI in action – crowds and fire dynamics**
Civil Safety Research (IAS-7)
 - AI at JSC – from the lab to real-world applications**
Jülich Supercomputing Centre (JSC)
 - The brain as a model – efficient hardware for AI**
Computational and Systems Neuroscience (IAS-6)
Peter Grünberg Institute (PGI)
 - AI in early-childhood education**
The Kleine Füchse daycare centre