




# SPECIAL ACTIVITIES FOR CHILDREN AND TEENAGERS

**Research rally**  
Children and teenagers have the opportunity to discover science on our campus for themselves. Follow the  to find your way!

**Experiments for young scientists in the institutes**  
All suitable experiments are listed on information panels in front of the institute buildings. 


**JuLab Schools Laboratory and Exploregio.net**  
Hands-on experiments with lots to learn and discover for young and old alike (building 04.11). Come and join us! 

**Training, careers, and diversity on campus**  
Students and pupils of all ages can learn about training opportunities and campus life (buildings 04.7 and 04.11).

**Lakeside stage**  
Experience our science and experiment shows!


## IMPORTANT INFORMATION


No registration required for Open Day. Current precautionary measures regarding COVID-19 can be found at [www.tagderneugier.de/en](http://www.tagderneugier.de/en) and [www.tagderneugier.de/app](http://www.tagderneugier.de/app).


 No cars are allowed on campus on Open Day (exception: access road to accessible car park).


 Your four-legged friends will have to stay at home.


 Cyclists are very welcome on campus.


 Starting at 09:30, there will be regular free shuttle buses to take you to and from the designated car parks around the town of Jülich and Forschungszentrum Jülich's main entrance (P1-P6) or Hambach gate entrance (P7-P10).

 You can take the RB 21 Rurtalbahn train (operating an extended service; you will need to purchase a valid ticket) from Düren or Linnich to the "Forschungszentrum" stop. From there, you can walk (approx. 15 minutes) or take one of the regular free shuttle buses to the main entrance of Forschungszentrum Jülich.

 Wheelchairs and rollators 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 which may be used as part of our public relations activities.

 The central meeting point and lost property office are located at the visitors' reception at the main entrance.

 Further information is available at our information stands, campus maps, and on the Internet: [www.tagderneugier.de/en](http://www.tagderneugier.de/en) or [www.fz-juelich.de/en](http://www.fz-juelich.de/en)  
Forschungszentrum Jülich, Corporate Communications, Tel: 02461 61-2121, email: [tagderneugier@fz-juelich.de](mailto:tagderneugier@fz-juelich.de), #Tdn22 #TagDerNeugier #WandelGestalten

  
[www.tagderneugier.de/wall](http://www.tagderneugier.de/wall)  
  

 **First aid/emergency services:**  
02461 61-77

# OUR RESEARCH HAS AN IMPACT!

What exactly do we mean when we say we want to shape change? For us it means that our research is having an impact. That we provide concrete answers to specific questions:

- How exactly does research improve our lives?
- How can we prevent extreme weather events?
- How can we help the agricultural sector if rainfall becomes less frequent but also heavier?
- Will there soon be a drug to cure Alzheimer's disease?
- What is the relevance of quantum computers in my everyday life?
- Will we soon all be driving cars powered by hydrogen and not petrol?

We work to ensure that our research results are useful for society, politics, and the economy, and actively shape our own research through external stimuli. We highly value our close collaboration with partners from industry, as this helps to ensure that our findings result in new products or services that benefit people's lives in the long term while at the same time conserving natural resources.

On Open Day, we want to show you how and where our research is having an impact. You will have the opportunity to speak with our researchers directly and ask them any burning questions you might have. Together, we will seek to find answers and might even stumble across new questions we need to find the answers to.

**P1** Vocational Training Centre ("Zentrale Berufsausbildung"), Leo-Brandt-Str. 1

**P2** Mechatronikzentrum Bundeswehr, Wilhelm-Johnen-Str. 1

**P3** Technologiezentrum Jülich, Karl-Heinz-Beckurts-Str. 13

**P4** Aldi Süd supermarket, Rudolf-Diesel-Str. 2

**P5** REWE supermarket, Margaretenstr. 12

**P6** Aldi Süd supermarket, Margaretenstr. 16

**P7** Kaufland supermarket (Jülich), An der Leimkaul 1

**P8** Fachhochschule Aachen, Campus Jülich, Heinrich-Mußmann-Str. 1

**P9** S-Bahn station Merzenich, Obererz 1

**P10** EDEKA supermarket Neue Mitte, Niederzierer Str. 86, Niederzier

# RESEARCH FOR A CHANGING SOCIETY

Digitalization, climate change, and the transformation of the energy system present us with many challenges as a society and raise a number of questions for the future:

- How will climate change impact my city?
- How can we produce less waste?
- What does the future hold for the region without energy produced from coal?
- How will a quantum computer change my life?
- Will my future colleague be a robot?

These are also questions to which we seek to find the answers here at Forschungszentrum Jülich. Our home is located in a region currently undergoing a transformation – moving away from lignite towards sustainable value chains. It is our mission to ensure that our research makes a decisive contribution to change and helps to establish a promising future. Our nearly 7,000 employees are united by this shared mission. The diversity among our workforce enables progress and creativity, and opens up new perspectives.

Together we research technologies and systems for a digitized society, a climate-friendly energy system, and a resource-efficient economy. We are not alone in this endeavour, however, as we are supported by strong partners from across the region, Europe, and the whole world.

**Download the Open Day 2022 app today**  
(campus map, real-time navigation, comprehensive info on the event, and push notifications on event highlights)

[www.tagderneugier.de/app](http://www.tagderneugier.de/app)



**OPEN DAY**  
**21 AUGUST 2022**  
[www.tagderneugier.de/en](http://www.tagderneugier.de/en)

**Admission free**

**10:00 to 17:00**  
Experience our research for a changing society.

In cooperation with:  

# LAKESIDE STAGE PROGRAMME

The programme of activities will be hosted by Esther Brandt and Johannes Döbbelt


**10:00 Aixotic Sambistas**  
Hot rhythms played by samba music group

**10:15 Introduction to Open Day**  
Open Day on campus

**10:30 Aixotic Sambistas**  
Hot rhythms played by samba music group


**10:45 ShowLabor**  
Marvel, laugh, and understand with Felix Homann

**11:15 Paradise At Midnight**  
Captivating beats provided by the music students of Folkwang UdK

**12:00 Experimentation means change**  
WDR 5 experiments – with Sascha Ott 

**12:30 Welcome address**  
by Prof. Dr.-Ing. Wolfgang Marquardt  
Chair of the Board of Directors of Forschungszentrum Jülich

**13:00 ShowLabor**  
Marvel, laugh, understand with Felix Homann

**13:30 Experimentation means change**  
WDR 5 experiments – with Sascha Ott 

**14:00 Paradise At Midnight**  
Captivating beats provided by the music students of Folkwang UdK

**14:30 Upcycling for the transformation**  
Creating a custom built greenhouse

**14:45 ShowLabor**  
Marvel, laugh, understand with Felix Homann

**15:15 Aixotic Sambistas**  
Hot rhythms played by samba music group

















**15:30 Experimentation means change**  
WDR 5 experiments – with Sascha Ott 

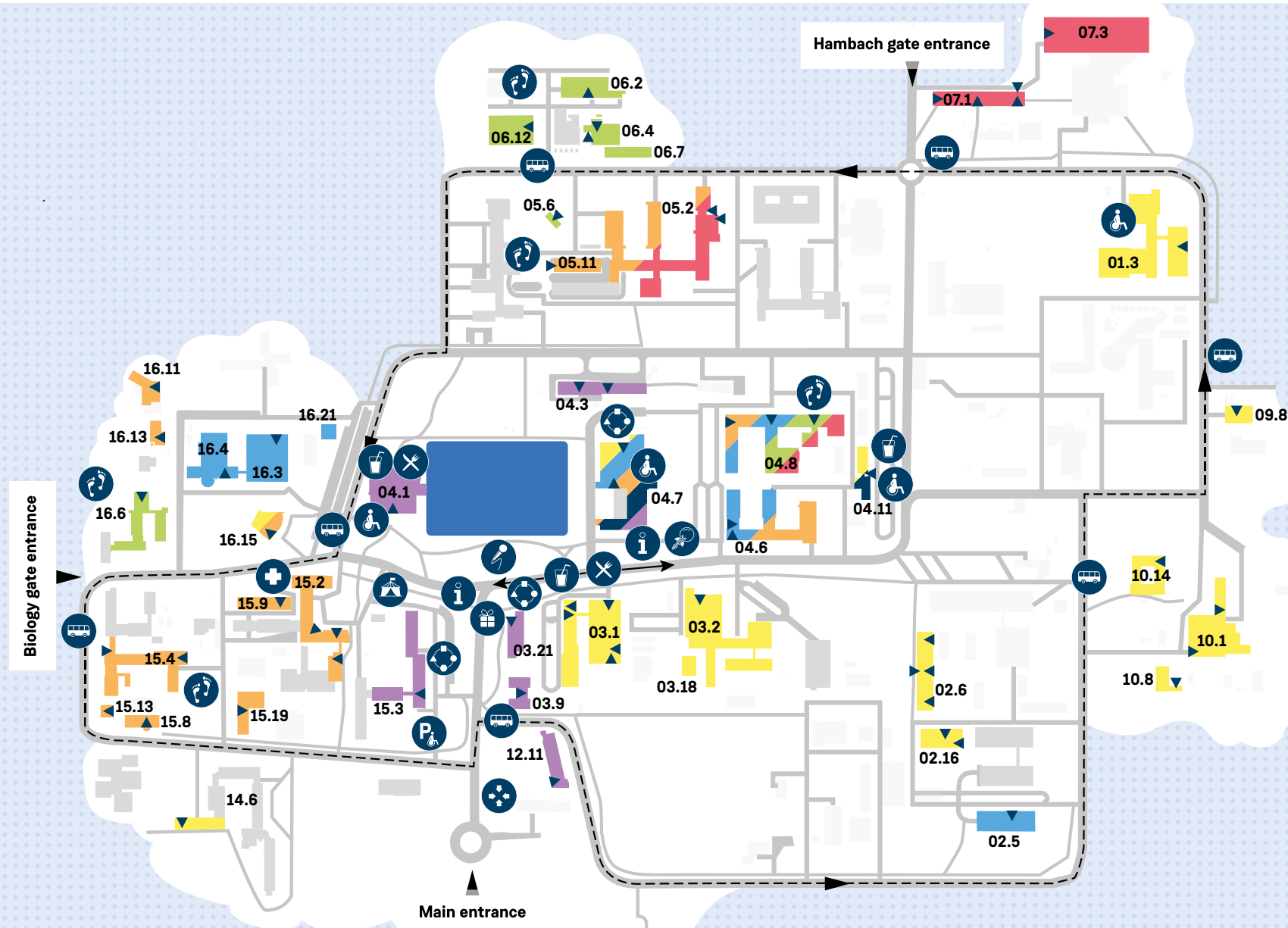
**16:15 Paradise At Midnight**  
Captivating beats provided by the music students of Folkwang UdK

**17:00 End of stage programme**





-  Info point
-  Food
-  Drinks
-  Lakeside stage
-  Research rally (6 years and over)
-  Diversity on campus
-  Bioeconomy
-  Hot on the trail of the life sciences  
External Funding Management (D)/BIO.NRW
-  Merchandise shop
-  Accessible toilets
-  Accessible car park
-  Campus shuttle bus stop
-  Campus shuttle bus route
-  Building entrance
-  Lost people & lost property point
-  **First aid**  
Emergency number: +49 2461 61-77



- ENVIRONMENT AND CLIMATE**
- 04.8 Analytics: tracing processes in the world of tomorrow**  
(ZEA-3)
- 05.6 How greenhouse gases are distributed across the world**  
Stratosphere (IEK-7)
- 05.6 Research up in the air: will we still be able to breathe freely in future?** Troposphere (IEK-8)
- 06.12 How plants are changing**  
Plant Sciences (IBG-2)
- 16.6 No future without soil**  
Agrosphere (IBG-3)
- ENERGY**
- 01.3 Innovative materials for the energy transition**  
Materials Synthesis and Processing (IEK-1)
- 02.16 Harnessing solar energy – not just on the roof!**  
Photovoltaics (IEK-5)
- 03.1 Hydrogen – discovering a carbon-neutral future**  
Sustainable Hydrogen Economy (INW)
- 03.1 Cutting-edge technology for a changing society**  
Engineering and Technology (ZEA-1)
- 03.2 Experience the transformation of the energy system**  
Techno-Economic Systems Analysis (IEK-3)
- 03.2 Systems solutions for a sustainable energy supply**  
Electrochemical Process Engineering (IEK-14)
- 04.7 Electric! insights into the batteries of the future**  
Ionics in Energy Storage (IEK-12/Hi MS)

- 04.7 Energy systems in transition: Society and technology**  
Systems Analysis and Technology Evaluation (IEK-STE)
- 04.11 Our campus as a living laboratory for future energy systems**  
Living Lab Energy Campus (LEEC)
- 09.8 The engine room of structural change and the energy transition**  
Fundamental Electrochemistry (IEK-9)
- 10.1 Energy of the future: fusion – the power source of the stars**  
Plasma Physics (IEK-4)
- 14.6 Theory and simulation for the energy of the future**  
Theory and Computation of Energy Materials (IEK-13)
- 16.15 Design and operation of smart energy systems**  
Energy Systems Engineering (IEK-10)
- INFORMATION TECHNOLOGY**
- 02.5 The world of chips – a science for you**  
Electronic Systems (ZEA-2)
- 04.6 Computer: are you just calculating or are you learning?**  
Electronic Materials (PGI-7)
- 04.7 Crowds in action – the dynamics of fires**  
Civil Safety Research (IAS-7)
- 04.8 Quantum laboratory materials: exoticness in everyday work**  
Quantum Theory of Materials (PGI-1/IAS-1)
- 04.8 Quantum computers – a glimpse into the future**  
Quantum Computing Analytics (PGI-12)  
Functional Quantum Systems (PGI-13)
- 04.8 JuSPARC: high-performance lasers for information research**  
Electronic Properties (PGI-6)

- 16.4 Supercomputing in transition: AI, quantum computers, exascale, Jülich Supercomputing Centre (JSC)**
- LIFE SCIENCES**
- 04.6 (Bio)macromolecular systems and processes in everyday life**  
Biomacromolecular Systems and Processes (IBI-4)
- 04.7 Bioelectronics: nerve cells communicate with chips**  
Bioelectronics (IBI-3)
- 04.8 Self-organization in biology and physics**  
Theoretical Physics of Living Matter (IBI-5/IAS-2)
- 05.2 Extremely cool: microscopes for molecular machines**  
Ernst Ruska-Centre – Structural Biology (ER-C-3)
- 05.11 Molecular bioinformatics: from gene to material**  
Bioinformatics (IBG-4)
- 15.2 Can we decode the blueprint of the brain?**  
Structural and Functional Organization of the Brain (INM-1)
- 15.2 The brain in action!**  
Cognitive Neuroscience (INM-3)
- 15.2 Cutting-edge brain imaging**  
Medical Imaging Physics (INM-4)
- 15.2 What your brain reveals about you**  
Brain and Behaviour (INM-7)
- 15.4 Modern cell factories: from gene to product**  
Biotechnology (IBG-1)
- 15.8 Biotechnology – omnipresent and useful**  
Molecular Enzyme Technology (IMET)
- 15.9 Glimpse into the brain – how and why?**  
Molecular Organization of the Brain (INM-2)

- 15.9 Do the brain and hormones influence our social behaviour?**  
Brain Structure–Function Relationships (INM-10)
- 15.13 Bio-organics: chemistry and biology hand in hand**  
Bioorganic chemistry (IBOC)
- 15.19 Radioactive spies in the brain**  
Nuclear Chemistry (INM-5)
- 16.11 Investigating SARS-CoV-2 and Alzheimer’s etc. with 28 tesla**  
Structural Biochemistry (IBI-7)
- 16.15 Computer simulations: the future of biomedicine?**  
Computational Biomedicine (INM-9/IAS-5)
- MATTER**
- 04.8 Neutrons and more – making the invisible visible**  
Neutron Scattering and Soft Matter (JCNS-1)  
Neutron Scattering and Biological Matter (IBI-8)
- 04.8 New pathways into the quantum world**  
Quantum Materials and Collective Phenomena (JCNS-2/PGI-4)
- 05.2 Tiny structures create huge changes**  
Ernst Ruska-Centre:  
Physics of Nanoscale Systems (ER-C-1)  
Materials Science and Technology (ER-C-2)
- 07.1 The mystery of our existence – questions of particle physics**  
Nuclear Physics (IKP)
- SUPPORTING TALENT – LAUNCHING CAREERS**
- 04.7 People @Forschungszentrum Jülich**  
Equal Opportunities Bureau (BfC)
- 04.7 Careers at FZJ – help us to shape change!**  
Human Resource Development and Recruiting (P-E)
- 04.11 Experience science – help shape the future**  
JuLab Schools Laboratory (SL)
- 04.11 Start your training or dual study programme with us!**  
Vocational Training Centre (P-Z)
- CAMPUS**
- 03.9 Forschungszentrum Jülich’s energy supply in transition**  
Planning and Building Services (B)  
Building and Engineering Services (T)
- 03.21 Science builds bridges**  
National and International Relations (UE-B)
- 03.21 Sustainability at Forschungszentrum Jülich**  
Innovation and Strategy (UE-I)
- 03.21 Strategies for diversity & inclusion**  
Support for Young Researchers (UE-N)
- 04.1 A good meal before the research tour**  
Seecasio (M-SV)
- 04.3 Making room for the future**  
Jülicher Entsorgungsgesellschaft für Nuklearanlagen mbH (JEN)
- 04.3 Radiation, humans, and environment**  
Safety and Radiation Protection (S)
- 04.7 Jülich’s guard dog unit in action**  
10:30/12:00/13:30/15:30  
Site Security (S-O)
- 04.7 Publications – the currency of science**  
Central Library (ZB)
- 04.7 Experience research for a changing society**  
Dialogue/interaction in the Central Library (ZB)
- 04.7 Getting young and old moving**  
The “Kleine Füchse” daycare centre
- 12.11 A close look at the work of the Works Fire Brigade**  
Works Fire Brigade (S-F)
- 15.3 Adventure course: how money is invested in research**  
Project Management Jülich (PtJ)
- 15.3 Inclusion 2.0/understanding inclusion**  
Representatives for persons with disabilities (SBV)