

Research and Study at Leibniz Universität Hannover

11
102
1004

Leibniz
Universität
Hannover



Shaping the Future with Knowledge

Imprint

Publisher

Präsidium der Leibniz Universität Hannover
Welfengarten 1, 30167 Hannover

Responsible for Content

Department of Communication and Marketing

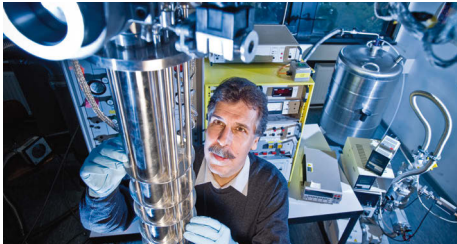
Picture credits

Title ©Andree Stephan, www.wikipedia.org

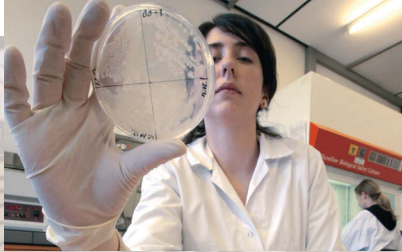
©Leibniz Universität Hannover. S. 4, 6, 9, 11, 14, 22; ©Bodo Kremmin: S. 2, 3, 4, 5, 9, 10, 11, 20; ©Phillip Bartz: S. 4, 12, 17, 18, 19; ©www.fotodesign-bierwagen.de: S. 8, 22 ©Mathias Schumacher: S. 13, 15, 16; 22; ©Frank Wilde: S. 2, 4, 7; ©Eberhard Franke/TCL: S. 1, 14; ©Norbert Michalke/Quest: S.1; ©Thomas Damm: S. 21; ©Eileen Stark: S. 18, 19; ©Claudia Wonnemann: S.14; ©Christian Malsch: S. 12, 17, 19; ©TVN Group: S. 1; ©Julia Volker: S.19; ©Christoph Edeler: S.20; ©Samantha Franson: S.20; 23; ©Dorota Sliwonik S. 22;

©Gottfried Wilhelm Leibniz Bibliothek, Niedersächsische Landesbibliothek: S. 3: Skizze einer Medaille Leibniz Nachlass; S. 5: LH XLII, 5, Bl. 29r; S. 11: LH XXXV, VIII, 18, Bl. 2v Integralzeichen 1675; S. 10: LH XLII, IV, Bl. 40; S. 13: Leibniz Unterschrift LBr. II, VIII, 24;

Shaping the Future with Knowledge



At Leibniz Universität Hannover, we are helping to shape tomorrow's world.
We're delighted that you wish to find out more about us.



The Past & Present

Tradition and Modernity

From its modest origins as a small vocational school with just 64 students in 1831, Leibniz Universität Hannover has developed into a modern university with 180 degree programmes and joint degree options, over 29,000 students, and strong research areas.

The last of the great polymaths epitomises our wide selection of subjects, our spirit of research and our will to cooperate. The broad spectrum of subjects offered at Leibniz Universität Hannover ranges from engineering and natural sciences,

architecture and environmental planning, law, economics and management to the humanities and social sciences. The selection of our namesake inspires and drives us to further raise the educational and research profile of Leibniz Universität Hannover.





Living

Learning

Advancing



Studies and Teaching

Some 29,000 young people study at Leibniz Universität Hannover. They have chosen to study at a university featuring a wide range of study options: around 90 subjects are taught on more than 180 full and part degree courses. Only very few universities in Germany offer a comparable spectrum of possibilities. In addition, the continued development of the quality of our teaching is ensured thanks to a variety of projects.

Students are given excellent supervision from the word go, enabling them to recognise and learn to use their true potential. Under the umbrella of the ServiceCenter, information is provided by staff from a range of facilities including the Student Advice Office, the Registration Office, Hannover Student Services and the Centre for Psychological-Therapeutic Counselling. And those whose brain hurts from all the learning can nip down to the University Sports Centre and return to their desk with a clear mind.

The practice-oriented services offered by the Career Service ensure a successful career start before and after graduation. After completing their studies, graduates can stay in touch with us via the Alumni Office.





Faculties

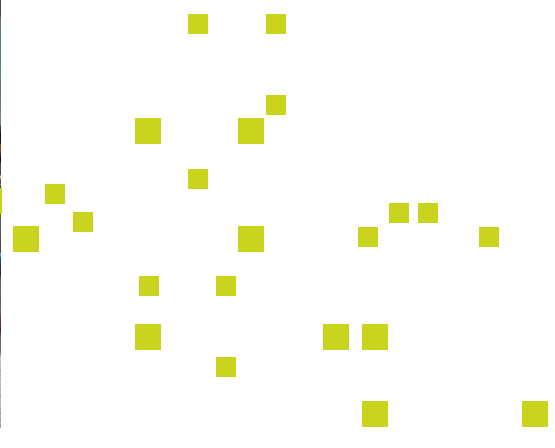
Nine faculties with some 150 institutes offering teaching and research form the backbone of Leibniz Universität Hannover. As institutions equivalent to the university faculties, the QUEST Leibniz Research School and the Leibniz School of Education set their own focal points for research.



Architecture and Landscape Sciences

Engineering, art, history, or sociology? Great architects draw on elements from all of these fields of knowledge. In any case, the emphasis is on humans and the built environment. This is why one of the key

areas of the faculty is taking into account urban development and cultural landscape aspects in design and planning. Leibniz Universität Hannover is the only higher education institution in northern Germany that offers training and research in Landscape Architecture and Environmental Planning.



Civil Engineering and Geodetic Science

On land, on the sea and in the air: the spectrum of studies offered at the Faculty of Civil Engineering and Geodetic Science ranges from Structural Engineering, Bridge Construction, Wind Energy, Coastal Engineering, Geodesy and Geoinformatics to Computational Engineering.

The basis for cooperative scientific work has been created through the establishment of key research activities involving more than one institute or faculty.



Electrical Engineering and Computer Science

Whether found in washing machine motors, power plant generators or computer microchips, electrical engineering is omnipresent. Equally important is software, without which mobile phones, computers, aeroplanes and cars would not function. In addition to the fields of Electrical Engineering at Leibniz Universität Hannover, such as Energy Engineering, Automation Engineering, Communications Technology and Computer Science, this faculty offers the relatively new engineering science of Mechatronics.



The Faculty of Law



With a view to Europe: judicial areas are steadily expanding. International interdependencies in business and European integration constantly present new challenges that are taken up by the Faculty of Law in its research and teaching. In addition to the traditional fields of German jurisprudence, it is also intensifying comparative studies of European and non-European legal systems. These include, for example, work on monopoly law and environmental law, as well as the practice of international legal assistance.



Mechanical Engineering

Development impulses for innovative technology: the Faculty of Mechanical Engineering generates more external funding than any other faculty at Leibniz Universität Hannover. But not only are these numbers impressive – so is the range of subjects. Skills and competence are combined here in order to provide joint development impulses and a competent partner for industry. Innovative research projects on subjects such as reducing energy consumption, mechatronic measurement systems or optimised production processes are just a few examples.

Mathematics and Physics

Calculating and experimenting with models: Mathematics is at the same time both practice-related research and basic research. It provides important basic information for natural science, technology and economics, and even for art. With its mathematics institutes, the faculty covers a broad research spectrum. In Physics, too, top-quality research is carried out at Leibniz Universität Hannover. Quantum Optics, Gravitation Physics, Solid State Physics and Meteorology are fields in which research and attractive courses of study are closely linked with each other.



Faculty of Natural Sciences



Whether the focus of research and teaching is on new discoveries in gene technology, the development of ecosystems, materials in living and inanimate nature, horticultural research or the world – the Faculty of Natural Sciences offers a broad range of subjects with its fields of Biology, Chemistry and Horticulture, as well as Earth sciences and Geography. Cooperation between its individual fields of specialisation is a key aspect at Leibniz Universität Hannover.



Faculty of Humanities

Research into the thoughts and actions of human beings in different temporal and social contexts links the Faculty of Humanity's different sections. These sections cover areas such as Education and



History, Philosophy and Social Sciences, as well as Literature and Linguistics. Sports Science adds a further aspect to this offer. Interdisciplinary working groups, research colloquia and numerous projects are evidence of interdisciplinary cooperation between these sections.

Faculty of Economics and Management

Efficiency for business, finance and society: innovative research into the fields of Business Administration, Economics and Quantitative Economics is undertaken at



the Faculty of Economics and Management. Leibniz Universität Hannover thus offers young economists a broad range of subjects. Research into current topics helps to make the state and the economy more efficient.

The Leibniz School of Education

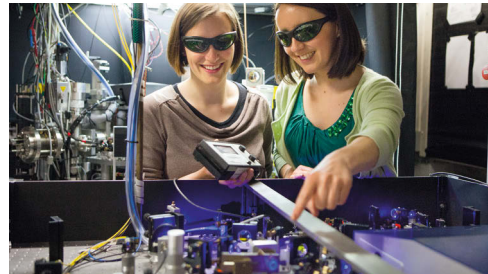
Innovative and sustainable strategies for teacher training: as an interfaculty entity, the Leibniz School of Education oversees the organisation of teacher training at Leibniz Universität Hannover and is the port of



call for all students of education as well as for lecturers involved in teacher training. In cooperation with the faculties involved, the Leibniz School continually develops innovative and sustainable strategies focusing on the scientific and professional orientation of teacher training.

QUEST Leibniz Research School

In line with the future strategy of Leibniz Universität Hannover, the QUEST Leibniz Research School was established as the first of its kind. The Research School is an interdisciplinary institution, extending to several faculties, with a focus on exploring the intersection of physics, mathematics, and geodesy. The Research School, a pilot project for new facilities at Leibniz Universität in the future, was set up through QUEST – the Centre for Quantum Engineering and Space-Time Research – which has provided a structural framework for outstanding cross-faculty research and has set the course for future large-scale interdisciplinary research projects.



Leibniz



Research

Leibniz University Hannover is known for its international excellence in research. We hold a leading international position in our key research areas quantum optics and gravitational physics, production engineering, biomedical science and technology, as well as in Interdisciplinary Studies of Science. Furthermore, LUH is particularly strong in the fields of energy research, plant science, and nutrition, as well as in earth and life sciences. Our independent Clusters of Excellence PhoenixD (Photonics, Optics, Engineering – Innovation Across Disciplines) and QuantumFrontiers (Light and Matter at the Quantum Frontier: Foundations of and Applications in Metrology), as well as the joint Cluster of Excellence Hearing4all were particularly successful in the Excellence Strategy of the German federal and state governments. The interdisciplinary consolidation of outstanding individual performance is also reflected in our collaborative research centres, research training groups, ERC Grants, as well as in interfaculty research initiatives and centres.



Innovative research centres such as the Hannover Institute of Technology (HITec), the Centre of Biomolecular Drug Research (BMWZ), or the Laboratory of Nano and Quantum Engineering (LNQE) offer a unique infrastructure for top-level interdisciplinary research. The close collaboration between Leibniz University Hannover and Hannover Medical School brings together technical, scientific, and medical research excellence. The Graduate Academy at LUH provides excellent conditions for young researchers during their doctoral phase. As a central facility, Leibniz Universität IT Services (LUIS) has been providing IT services and IT infrastructure for research, teaching, and administration since 1978.

Quest
Insight
Quality



Future
Networks
Synergies

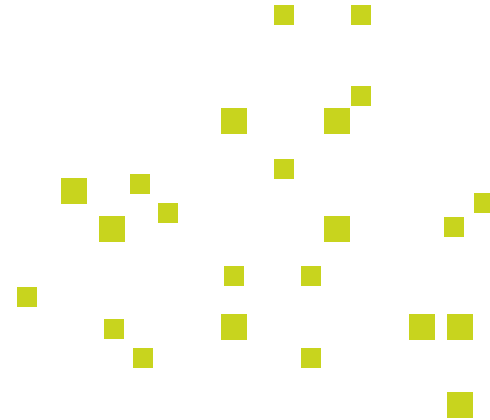
Cooperation

Exchange and collaboration with other people was one of the foundations of the work of Leibniz. Regional cooperative activities with other universities and research facilities strengthen Hannover as a science location. In association with Hannover Medical School, the University of Veterinary Medicine Hannover, Foundation, and the Laser Zentrum Hannover, Leibniz Universität Hannover runs the Lower Saxony Centre for Biomedical Engineering, Implant Research and Development (NIFE). The objective is to boost the attractiveness of Hannover as centre of academic and scientific activity and to enhance the framework conditions for students.

Leibniz Universität Hannover is a member of TU9, an association of nine leading technical universities in Germany. In addition, close collaboration with the Technische Universität Braunschweig is notable. The new "Wissenschaftsallianz Braunschweig – Hannover" will work to continually work to deepen these collaborative efforts. Close

cooperation also takes place with external institutes such as Fraunhofer and the Max Planck Society, as well as with the Helmholtz Association.

Alliances with the business community foster an awareness of quality and performance. Many projects have been realised at Leibniz Universität Hannover with support from the realm of business. The university cooperates successfully with renowned companies such as Volkswagen Commercial Vehicles, Continental and MTU Maintenance Hannover GmbH. Staff at uni transfer, the Research and Technology Contact Office at Leibniz Universität Hannover, are the point of contact for companies and academics.





Mobility

Awakening

Exchange

International Matters

Science and the spirit of research do not stop at national borders. We think globally, maintaining teaching and research partnerships with leading universities both nationally and internationally. The International Office is responsible for advancing internationalisation, as well as for developing and maintaining university partnerships. In this connection, the university concentrates on specific regions and strategic partnerships. This orientation means that traditional partnerships with universities in the USA, Europe, Russia and the People's Republic of China play a major role, besides more recently established partnerships in (South)East Asia, India and a number of Latin American countries. More than 3,900 students come from abroad, and 1,364 exchange options at 348 universities in 54 countries also enable our students to spend a period abroad.



People



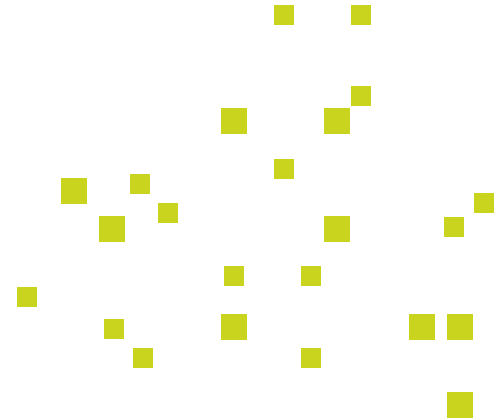
With some 4,900 members of staff, Leibniz Universität Hannover is one of the largest and most attractive employers in the Hannover Region. In addition to offering posts in science, research, teaching and academic programmes, the central university administration also manages a wide variety of tasks. People working at the faculties

and central facilities are also committed to ensuring the provision of ideal conditions for research and teaching. In-house health management, a wide range of continuing education opportunities and comprehensive childcare help to ensure that employees feel comfortable and enjoy working at the university.

Continuing Education

People continue learning throughout their lives. Leibniz Universität Hannover helps them to do just that. The university does not only provide training for students. The Office for Further Education acts as a coordinating and advisory office, as well as offering independent scientific further education. Each semester, occasional students and

senior citizen students take advantage of the possibility to attend seminars and lectures. There are also continuing education opportunities for numerous professional groups such as teachers.



Encounters

A leafy setting for a campus in the heart of Hannover: we actively seek exchange, in particular with citizens from the City and Region of Hannover. Every year, Leibniz Universität Hannover hosts numerous events that are open to anyone interested in university matters who have managed to retain their inquisitiveness. Some activities, such as the "Night Out With Science", are intended for the general public. Others, such as the "KinderUni" (Children's University), are targeted at specific groups. The Department of Communication and Marketing is the first port of call in this case. uniKIK, the interface between school and university, offers pupils and prospective students activities to foster their interest in science and technology. In addition, there are public lectures and talks covering a wide range of topics.





A permanent exhibition on the namesake of the university, Gottfried Wilhelm Leibniz, has been set up in the Welfen Castle, the main building of the university, one floor below ground. Additionally, after an extensive reorganisation in 2015, this building is home to the LeibnizShop, where various gifts and university merchandise are available.



Figures



Total budget: € 524,2 million
External funding: € 113.3 million



Students: 29,300 in the 2018/19 winter semester
Staff: A total of 4,926



Faculties: 9 faculties with around 150 institutes
Subjects: Some 90 in more than 180 full and part degree courses



Doctoral theses: Around 2,106 PhD students are currently writing a doctoral thesis



Fans: 14,426 on Facebook



Clicks: 2,796,227 visitors from 182 countries viewed our website a total of 11,432,343 times in 2017

Leibniz University Hannover Table of Figures can be viewed at:

www.uni-hannover.de/zahlenspiegel

Contact

The Department of Communication and Marketing regularly provides the media and the general public with interesting information about Leibniz Universität Hannover, and improves the university's outward visibility and internal identification.

Department of Communication and Marketing
Mechtild Freiin v. Münchhausen (Head)
Welfengarten 1, D-30167 Hannover

Phone +49 511 762 5342

Fax +49 511 762 5391

kommunikation@zuv.uni-hannover.de



Leibniz Universität Hannover

Welfengarten 1

30167 Hannover

Tel. +49 511 762 0

Fax +49 511 762 3456

www.uni-hannover.de

