Life.Science.City. Göttingen



1.1

On the left, the cover shows an image taken under a standard nicroscope (confocal) and on the right, the same structure using a microscope from abberior. Only then is the bristly structure of the microvilli visible thanks to the greatly improved.

resolution. The image has been magnified some 10,000 time. We should like to thank Professor Dorothee Günzel and Jörg Piontek (Charité, Berlin/Germany) for provision of this.

Table of contents

2 A centre of business

- 5 Life.Science.City.
- 9 A region for medicine
- 11 Logistics and mobility
- 12 Measurement and control technology
- 13 Concentrated data expertise
- 15 Cultural and creative industry
- 16 Start-up and innovation climate
- 18 Trailblazing urban development

20 A centre of science and research

- 22 Göttingen's global network
- 23 International cutting-edge research at the Göttingen Campus
- 24 Higher education institutions and research
- 27 Attractive degree courses
- 28 Symbiosis of industry and science

30 Göttingen as a conference venue

- 32 Göttingen in the centre of Germany
- 32 Lokhalle
- 34 University
- 35 Outlook

36 Quality of life in city and region

- 38 Urban vibrancy and international flair
- 38 Göttingen Germany's second-greenest city
- 39 Göttingen in motion
- 40 Culture a moving experience
- 42 Lokhalle Göttingen

44 The GWG team

- 46 GWG business promotion and urban development in Göttingen
- 46 Joining forces for a strong region
- 47 Good reasons for Göttingen

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A centre of business



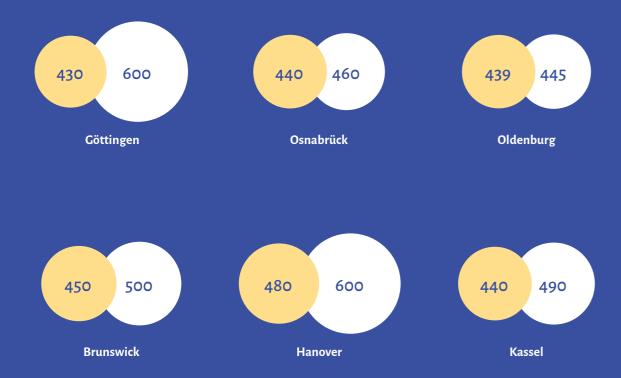
Göttingen is the centre of the region comprising the south of Lower Saxony, which consists of three districts: Göttingen, Northeim and Holzminden. It is home to over half a million people, with North Hesse and West Thuringia also viewing Göttingen as their regional centre.

Thanks to its close links with the region, the city offers many different opportunities for people who are looking for a great place to live with a high quality of life.

Some 10,000 companies are based in Göttingen itself, and this rises to over 20,000 with the surrounding district. The southern half of Lower Saxony is integrated in one of Europe's most innovative regions: the metropolitan area of Hanover | Brunswick | Göttingen | Wolfsburg.

Some four million people live here, with the influence of world-class companies such as Volkswagen or Continental, Sartorius, Evotec and Symrise being felt throughout the region.

As part of the metropolitan area, Göttingen is a driver of innovative projects, above all in the fields of the life sciences, health business, measurement and laser technology, transport and electromobility, energy and resource efficiency, as well as the cultural and creative industry.



Comparison of tax assessment rates

Business tax

Property tax B

Life. Science. City.

A growth sector with innovative potential. Life science in Göttingen.

Life science is a growth sector with great potential. This has led to strong development by the many companies in Göttingen that operate in the field of the life sciences These firms benefit greatly from the well-established research infrastructure available at this site. Many of these companies have joined forces with the local authority and scientists to consolidate Göttingen's life science sector. Over recent years this has given rise to an unrivalled start-up eco-system designed to encourage spin-offs and the transfer of ideas in life science. This support infrastructure comprises all stages of the development process, starting with research, through prototyping and culminating in the set-up of new companies. In Göttingen the resulting business structures are aiming for sustainability based on a long-term perspective.

Many of the large companies in the city and surrounding region operate in the field of life science: Sartorius AG is an international leader in pharmaceutical and laboratory supplies, Ottobock SE & Co. KGaA is a global frontrunner for orthopaedic technology and KWS Saat SE & Co. KGaA is one of the world's biggest plant cultivation and biotechnology companies. Evotec SE is an international player in the field of pharmaceutical drug research.

Life Science Accelerator

The Life Science programme offers start-ups and spinoffs six months of intensive support while being founded. With this programme, aspiring entrepreneurs have experienced businesspeople and scientists by their side, enabling them to sound out their new ideas. The development process is also accompanied by mentors. snic.de/accelerator

Life Science Factory - Life Science made in Göttingen

This unique life science incubator in Göttingen aims to promote research and development into innovative bio-and medical technologies with a clear focus on the user. Set up by Sartorius AG, the Life Science Factory offers new entrepreneurs, start-ups, scientists and researchers everything they need at one location from a single source: open-plan offices, an extensive mentoring and events programme, the >Maker's Factory< prototyping workshop, as well as variable >S1< laboratories. At a global level the Life Science Factory thus offers an innovative range of services in Göttingen as a centre of activity.

lifescience-factory.com/en

Life Science Valley

To accelerate the founding of new high-tech-companies in Lower Saxony, to support innovation and to contribute to the future viability of the location—these are the aims of the cutting-edge incubators that Lower Saxony's Department of Trade and Industry is promoting at sites throughout the state of Lower Saxony. Numbering eight in all, they operate in the fields of Quantum Technologies, Smart Mobility, Life Science, Smart Information Technologies, Digital GreenTech, as well as Farm, Food and Artificial Intelligence.

From July 2022 to the end of 2024 Life Science Valley in Göttingen will have received project funding totalling five million euros. Two million of this is earmarked for development of the high-tech-incubator and the other three million is being used as direct funding for 16 start-up teams.

Jointly initiated and founded by University Medical Center Göttingen, Life Science Factory and Sartorius, the company Life Science Valley GmbH owes its existence to interaction between top-level science and research, a sound understanding of start-up incubation / acceleration and an industry that is set on driving forward innovation.

lifescience-valley.de

A centre of business



Supply of space

Science Park

The Science Park Göttingen is a site that was specifically designed as a centre of excellence for biotechnology, optics and medical engineering. The complex of buildings bearing this name has been continuously extended by the GWG and offers state-of-the art premises to start-ups and innovative companies with a strong focus on research and development. The Science Park fulfils key requirements in terms of premises for firms that have been spun off from research institutes and are already doing business successfully.

Sartorius Quartier redevelopment project

Sartorius AG came up with an innovative urban development concept for its head office involving its former works near the city centre. On a site of 2.3 hectares this has given rise to an integrated urban district including homes, workplaces, education and hospitality facilities as well as innovation.

Housed in the historic buildings, the Health Campus forms the heart of this quarter. Unique cooperation between the University Medical Centre and HAWK University of Applied Sciences and Arts in the fields of nursing and therapy, unparalleled throughout Germany, has not only resulted in ideal conditions for higher education, but has also significantly boosted previous capacities. The Life Science Factory is likewise based here. And the Ottobock Group has also decided to join this cluster of healthcare start-ups by basing its centre of excellence at this site as well.

1 University Hospital

4 hospitals

23 old people's home

610 statutory insurance physicians

46 private physicians

89 dentists

19 alternative medicine practioners

37 pharmacies

2300 medical students

450 dentistry students

A region for medicine

Health business at a glance

The alliance between medical research, health business and medical engineering is one of Göttingen's flagships. Around a quarter of all jobs are linked to healthcare and social welfare. The many hospitals, first and foremost the University Medical Centre Göttingen, and the research institutes create an extremely dynamic, innovative environment. This gives rise to new medical procedures and future-oriented degree courses such as Medical Orthobionics and Sports / Rehabilitation Engineering offered by the PFH Private University of Applied Sciences, as well as so-called Dual courses (study incl. industrial placements) for therapy and nursing sciences at the Health Campus.

To additionally cater for future demand in the field of preventive health care, it will be necessary to create new professions and further extend qualifications for existing ones. At the Health Campus Göttingen students have the opportunity of acquiring coveted theoretical expertise in combination with hands-on knowledge.

Top-level health care is likewise offered by the University Medical Centre Göttingen (UMG), the Asklepios specialist clinic Göttingen, the Evangelisches Krankenhaus Göttingen-Weende with its second clinic Neu-Mariahilf and the Agaplesion Krankenhaus Neu Bethlehem. Boasting over 40 specialist clinics, the University Medical Centre is a maximum-care hospital and one of three university hospitals in the state of Lower Saxony. The new Max Planck Institute (MPI) for Multidisciplinary Sciences, the result of a merger involving the MPI for Experimental Medicine and the MPI for Biophysical Chemistry, undertakes basic research into medicine. It is also Germany's largest Max Planck Institute. The Plasma for Life cluster of the HAWK University of Applied Sciences and Arts helps medical engineering companies to exploit the potential of laser and plasma technology by means of close, practice-based cooperation.

Göttingen has become a top research institute at a global level thanks to the presence of other prestigious research centres located here:

Göttingen Center for Molecular Biosciences (GZMB)

The Göttingen Center for Molecular Biosciences (GZMB) is a joint initiative of over 30 research groups which are affiliated to the following faculties: Faculty of Biology and Psychology, Faculty of Medicine (University Medical Centre), Faculty of Chemistry, Faculty of Agricultural Sciences and Faculty of Forest Sciences at the Georg-August University. All these groups work in the field of molecular biology. See here for the most important objectives and projects of the GZMB

uni-goettingen.de/en/115976.html

European Neuroscience Institute Göttingen

The European Neuroscience Institute (ENI) in Göttingen is a joint initiative between the University Medical Centre Göttingen and the Max Planck Society. Its special feature: At the ENI junior researchers organise their projects in the field of neuroscience on a collaborative basis — an approach that brings major success.

eni.gwdg.de/ oder https://www.eni.gwdg.de/storage/ ENI2019Online.pdf

German Primate Centre (DPZ)

From molecule to behaviour: Responsible research and science-based services on fundamental issues of biology and medicine in humans and other primates. Founded in 1977, the company Deutsches Primatenzentrum GmbH is an independent research institute which serves Germany's science community. The research fields of the institute are structured into three sections: Organismic Primate Biology, Neuroscience and Infection Research. dpz.eu/de/startseite.html

For further information about health business and research in the south of Lower Saxony see:

Association Göttingen Health Region gesundheitsregiongoettingen.de

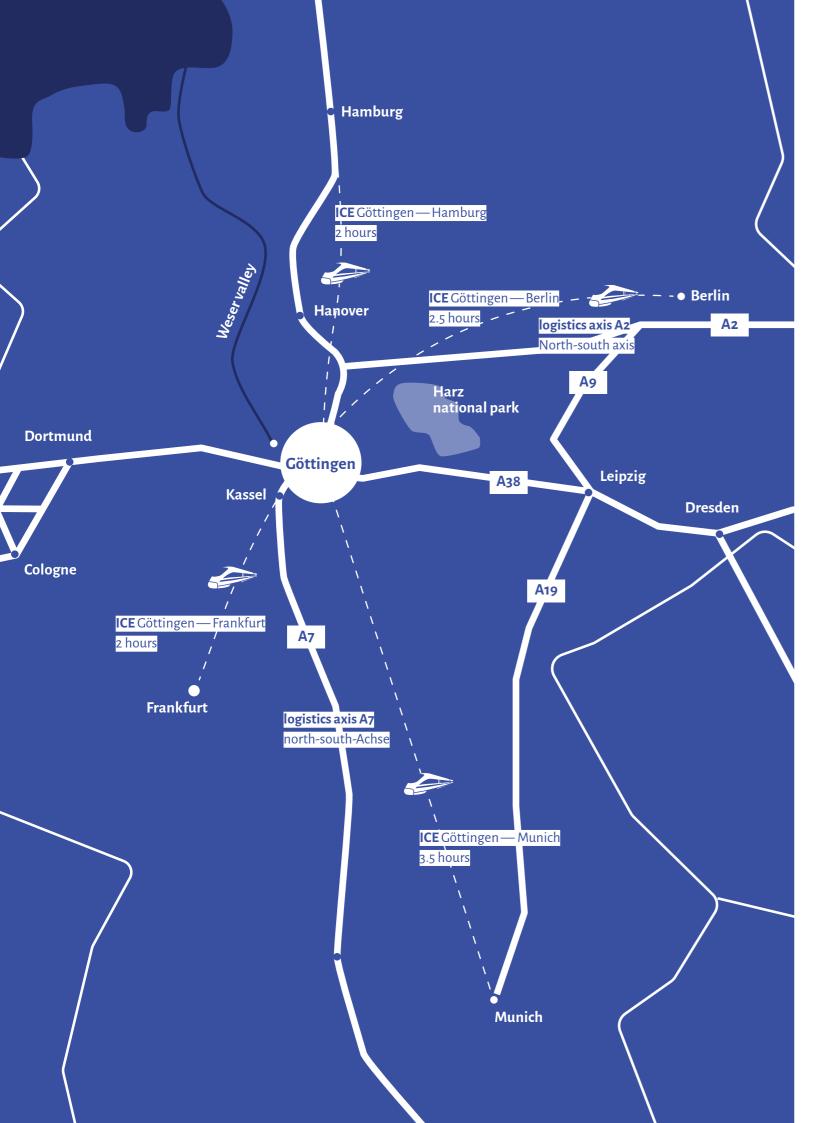
University Medical Centre Göttingen umg.eu/en

Plasma technology plasmaforlife.de

Health Campus Göttingen

hawk.de/en/university/faculties/facultyengineering-and-health/health-campus-gottingen

A centre of business A centre of business



Logistics and mobility

Göttingen as a logistical hub Ideal transport links for road and rail

Its central location in Germany makes Göttingen a perfect site for logistics. The city is directly incorporated in the country's network of key motorways via the A7, and there are also fast, direct rail links throughout the Federal Republic of Germany. In addition, international (freight) airports such as Frankfurt/Main, Cologne/Bonn, Hanover and Leipzig/Halle are readily accessible. Göttingen thus offers attractive cut-off times for goods distribution throughout the country.

L|MC Logistik und MobilitätsCluster Göttingen|Lower Saxony South

- jointly develops medium to long-term transport infrastructure projects with the GWG and initiates new logistics facilities / real estate.
- presents and markets the attractive logistics and investment site > Mitte D <.
- · assists with specialist staff initiatives.
- supports and aids logistics businesses and logistics-related production plants.
- initiates and aids mobility projects including in the framework of the Smart City scheme.
- works closely with partners from the worlds of business, science, politics and education.

Further information on issues of logistics und mobility can be found at Imc-goettingen.de.

The L|MC Logistik und MobilitätsCluster Göttingen | Lower Saxony South is a project sponsored by the GWG and acts as a central point of contact for issues of logistics and mobility in Göttingen and the surrounding region.

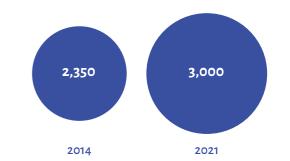
GVZ Göttingen

GVZ Göttingen has a direct link (free of traffic lights) to the A7 motorway via the B27, as well as a connection to the main track system of the German railway network and an extensive logistics centre approx. 7.5 hectares in size, complete with a large logistics hall.

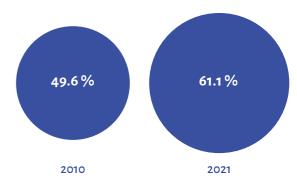
GVZ Siekanger logistics park

Located next to the A7, GVZ Siekanger is operated through cooperation between local authorities. It occupies a site totalling 34 hectares and offers warehousing and logistics facilities with modern equipment.

Growth in employment in transport and warehousing sector (employees subject to social insurance) ³



Export rate in the sector



- 3 Göttingen public employment agency
- 4 https://www.ihk.de/blueprint/servlet/resource/blob/5182962/ 039b4896eecfa119937046dde937399a/ faktenflyer-goettingen-data.pdf

A centre of business

Measurement and control technology

Environmental protection, medical engineering and food analysis

Measurement technology is key to ensuring top-quality precision products that can be relied on, as well as being an important requirement for networked production in line with Industry 4.0. It is many years ago that the need for highly accurate measurement was merely restricted to mechanical engineering and R&D. The demand for innovative measurement methods is not only growing in the fields of environmental protection, medical engineering and food analysis, but also in the transport and traffic sectors.

Göttingen stands out here with one of its key industries: Many well-known measurement technology companies in the region offer processes ranging from highly complex laser technology to classical length and flow measurement. They include the determination of layer thicknesses, capture of climate data and development of optical microscope systems.

Over 7,000 jobs are directly associated with measurement technology – in other words, one in ten people. Not to mention the 40 different training courses with some 350 places that are also on offer here.

Tradition with a future Light engineering and measurement technology

The light engineering and metrology industries are closely linked to the establishment of the Georg-August University Göttingen. When it was founded in 1737, this also involved set-up of the Laboratorium Chymicum, which subsequently formed the basis for the Physikalisches Kabinett, the first institute of physics. This in its turn acted as the technical springboard for mechanics, as it developed innovative techniques that called for new instruments and equipment. Firms for measurement technology have thus been repeatedly founded in the context of the university since the days when Carl Friedrich Gauß (1777 – 1855) worked there. Sartorius AG is a prime example of this. Founded in 1870 as a light engineering workshop, it has grown into a global player with an annual turnover of 3.5 billion euros (2021).

Measurement Valley e.V. trade association

The measurement technology industry in the city has also traditionally seen itself as more than an accumulation of individual companies. Between 1929 and 1940 the leading precision engineering plants in the town banded together to form an advertising alliance: the Factory Association of Göttingen (VGW). In 1998 this tradition came to life again with the founding of the association Measurement Valley e. V. Now numbering over 40 members, the members of this association work together closely in the various areas of this sector and benefit from the concentration of scientific and commercial expertise within the region. This gives rise to a creative climate for innovation that is not found anywhere else in the world of measurement technology.

measurement-valley.de/en



Concentrated data expertise

Data and its targeted processing are becoming increasingly important in value-added chains. The region of Göttingen offers perfect conditions for the implementation of data-based business models thanks to the large pool of specialist staff, extensive scientific expertise and the location's position as a centre of high-performance computing.

> The Campus-Institute Data Science (CIDAS) is home to over 90 scientists, whose work ranges from basic research through applied data science and computer science to the consequences of digitalisation on society. Key areas of research at this scientific unit include the application fields of bioinformatics, digital health as well as sensor systems and measurement procedures. Digital humanities, business informatics and scientific computing reflect the spectrum of scientific expertise available here. A differentiated range of degree courses allows Göttingen's universities to impart this knowledge to aspiring young scientists.

> With the company Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen (GWDG), the Göttingen Research Campus can additionally call on a top-level computing and IT competence centre, which not only offers support, but also researches into applied computer science, as well as facilitating the training of specialist IT staff. As the operator of the Emmy (North German Supercomputing Alliance) and the CARO (German Aerospace Center) super computers, GWDG is listed in the Top 500 of the world's fastest computer systems.

Students of Computer Science

Business Informatics University of Göttingen



125 Master's degree

Applied Computer Science Applied Data Science University of Göttingen

470 Bachelor's degrees



150 Master's degree

Business Informatics (Dual system) Private University of Göttingen

25 graduates

A centre of business

A Smart City

With goettingen.digital, the City of Göttingen and the GWG are pursuing a broad-based approach to proactively shaping the process of digitalisation and selectively using data to improve quality of life. This is achieved by means of smart services and data-driven decision-making in dialogue with the urban community. The action fields Mobility, Environment, Health and Education have been prioritised with the aim of advancing Göttingen's development into a smart city.

More on Göttingen as a smart city at goettingen.digital

Wide variety of innovative IT companies

Information technology, telecommunication and new media are all strongly represented in Göttingen and the surrounding region and are highly relevant where business is concerned. This dense network of companies allows Göttingen to offer an appealing range of jobs for specialist IT staff as well as interesting employment opportunities for newcomers to these professions.

Optimal broadband network with fibre optic in industrial zones

Most of Göttingen's urban region is equipped with supervectoring and broadband cable networks. Data rates exceeding 1000 Mbps are available in almost the entire city, while elsewhere speeds generally range between 100 and 400 Mbps. More on broadband availability at breitband-niedersachsen.de

Added value through the IT InnovationsCluster

The city's business development organisation (GWG) supports the local IT sector with the network known as IT InnovationsCluster Göttingen/Lower Saxony South. It currently has around 20 members. This cluster pursues three key objectives: networking of local IT companies and bundling of their skills, transfer of knowledge between them and to industry from the university landscape, and the retention of specialist staff within the region. More on the IT InnovationsCluster at

it-in-goe.de



Cultural and creative industry

The cultural and creative economy is an important cross-sectoral industry, which links traditional business areas, innovative technologies and modern forms of information and communication, so leading to new perspectives.

In Göttingen a key role is played by culture and an environment that fosters creativity. The city is an important publishing centre with a vibrant cultural scene and creative platforms. It is home to numerous renowned publishers such as Hogrefe, Vandenhoeck & Ruprecht or the international publishing house Steidl.

musa - the hub of the creative scene

With the musa cultural centre, the City of Göttingen supports a venue that offers creative individuals a place to stage or participate in numerous cultural activities and events: People embarking on a new cultural career path can hold workshops here, whatever genre is involved. Workshops and courses for art and music are specifically aimed at younger audiences, likewise the concerts and parties taking place at musa. The centre also has special importance for groups who want to try their hand at being creative and will find the support they need for their projects there. More on musa at musa.de

StartRaum - the place for innovation and creativity

StartRaum combines many things under one roof: a coworking space, a lively community of creative minds, and start-ups whose founders can exchange ideas with each other and people experienced in doing business via different event formats. The product development infrastructure includes a fully equipped workshop, the MakerHub, a multimedia studio, technology for digital product development and a training environment. More on StartRaum at startraum-goettingen.de

Stellwerk – Göttingen's network for the creative industry

The Stellwerk association is the face of the creative scene in the city. This network offers Göttingen and the surrounding region a platform for exchange and multisector cooperation between creative individuals, who otherwise often plough a lonely furrow in their career. Stellwerk gives creative minds a voice, bundles and represents their interests and offers in-house training courses. More on Stellwerk at stellwerk-goettingen.de

For other cultural opportunities in Göttingen, see > Quality of life in city and region < (page 36).



A centre of business A centre of business

Start-up and innovation climate

Recent years have seen the creation of a complex network between actors from science and industry in Göttingen and the south of Lower Saxony. This network pursues an important objective: to increase levels of innovative drive — both in existing companies and new start-ups. The SüdniedersachsenInnovationsCampus (SNIC) gives key expression to this dynamism. It was founded by the four universities in the region — TU Clausthal, the University of Applied Sciences and Arts (HAWK), the Private University of Göttingen (PFH) and the University of Göttingen — together with the foundation SüdniedersachsenStiftung, the Chambers, the business development agencies, the districts of Northeim and Göttingen and the City of Göttingen.

Technology consultancy

Technology consultancy and innovation scouting:

this is the dynamic double act that forms the heart of the SNIC. Based at participating universities, innovation scouts purposefully scan the research strategies of the scientists working there for commercial and innovative potential. Technology consultants on the other hand visit companies, learn about their problems and selectively seek innovative solutions from the academic community.

Start-up consultancy

Start-up consultants at the SNIC, the business development agencies and the universities offer an open ear to anyone with a new idea to help with its development. To this end, the PFH and the **Entrepreneurship School** organise a yearly workshop extending over several days.

Community

The start-up support team drives an optimal **start-up eco-system** as the basis for encouraging the development of new companies in the region. Propagators team up with the **Startup Göttingen e. V.** network to organise Entrepreneurship Meetups as a platform for open exchange on all issues relating to setting up a business.

For a number of years the start-up support team at the GWG has held regular get-togethers on the topic of **Food and Beverage. StartRaum Göttingen**, with its coworking spaces in the city centre of Göttingen, is a diverse community comprising 130 new entrepreneurs, coders, designers, company employees and coaches, to name just a few of the many members. Last but not least, the facilities on the Kreativetage of musa also offer founders an atmosphere that is perfect for networking and growing their company.

Seminar rooms

Budding entrepreneurs have several points of contact to call on when looking to develop their new business venture: the **Centre for Entrepreneurship (ZE)**, the Pre-Incubator or the **Life Science Accelerator** of the SNIC. New entrepreneurs will also find room for their ideas at the **Life Science Factory** and **Life Science Valley**, as well as at Göttingen's technology centre **GöTec** or the **Göttingen Science Park**. At **StartRaum Göttingen** in the city centre, people and companies can come together on an equal footing and so bring innovative products or projects to fruition. **musa** likewise offers a wide range of options when it comes to workspace.

Competitions

Presentation to the general public and pitching before experts and investors are other important factors for giving extra momentum to start-ups. With this in mind, the University of Göttingen set up the **Lift-Off Competition** that invites budding entrepreneurs to submit their business ideas once a year. To make it easier for start-ups to access investment, the PFH has additionally developed a regional crowdfunding platform named **Ideengeber**. The **Innovation Award** of Wirtschaftsförderung Region Göttingen GmbH (WRG), is also held once a year, in a search for new, innovative products, methods, services, processes or business ideas. In this context the State of Lower Saxony additionally confers a further prize, the Climate Innovation Award of Lower Saxony.

Please see the following links for further information on founding new businesses and aid available for startups.

SüdniedersachsenInnovationsCampus snic.de gwg-online.de/unternehmen/technologieberatung

Pre-Inkubator & Life Science Accelerator snic.de/pre-inkubator | snic.de/accelerator



Trailblazing urban development

The mission of the GWG does not just stop at business development but also includes the realisation of urban development projects in Göttingen. This results in unique opportunities to bring together the needs of enterprise development and the targeted development of sites. Here one principle of site development is to closely accompany the development of businesses and to offer them optimum support while maintaining a continuous dialogue.

Die Urban / site development at the GWG comprises infrastructure projects, the development of freight handling centres and the design and realisation of industrial parks. The GWG additionally acts as a property developer and investor to enable it to offer customised real estate solutions in Göttingen to rapidly expanding companies. There are many successful examples of this: The Science Park Göttingen, an important centre for tech companies, is being continuously extended, catering for the special needs of the firms based there. Major real estate projects include construction of the new headquarters for the abberior group and spin-offs from the Max Planck Society on the Nordcampus of the university. The laboratories of Nobel prize winner Prof. Stefan Hell are characterised by dynamic growth thanks to his revolutionary microscopy technology. Despite strong competition from other very attractive sites, Stefan Hell Labs opted for Göttingen and the facilities offered by the city and the GWG.

The GWG has also assisted international laboratory and medical service provider amedes in creating a centre of excellence tailored to the needs of the amedes group in Göttingen's InnovationsQuartier. Under the redevelopment scheme for the district around the old goods station, the GWG has built several modern office blocks that have made this site a sought-after address in a top location.

It has also provided the Application Center for Plasma and Photonics of the Fraunhofer Institute for Surface Engineering and Thin Films IST, a spin-off from the HAWK Faculty of Engineering and Health, with new workspace for successful development activities at the Zietenterrassen neighbourhood.



A centre of science and research



For 300 years Göttingen has enjoyed an outstanding international reputation, which it owes to a university that is preeminent, intellectually open and committed to its role of providing information and education. This has been the mainspring for the development of Göttingen as a centre of science. It has attracted other research institutes to the city—a trend that is set to continue in coming years.

Göttingen's global network

Göttingen is currently home to all major
German research institutes: With four
such centres, its research level is one of the
highest in the country, and it boasts the
largest individual institute of the Max Planck
Society. This also results in a dense global
network of science facilities, which repeatedly attracts first-rate scientists to the city.

The internationally outstanding university with a focus on research-based teaching is characterised by a wide range of disciplines, particularly in the humanities, by its excellent facilities for natural science and by the superb quality of its research work in the fields for which it is famed

It goes without saying that research at Göttingen goes on in all areas of science. Key fields under study by the university, non-university organisations and the research institutes in the city include biotechnology, medicine, photonics and data science / digitalisation.

The University of Göttingen, the University Hospital Göttingen and seven local non-university research centres, including four Max Planck Institutes, have worked together over many years to jointly develop the Göttingen Campus.

Associate Partners from industry and public institutions also contribute to the research performed at the campus. This partnership is based on common interests, supporting structures, voluntary commitments, physical proximity and trust between all participants. Further information can be found at goettingen-campus.de

Göttingen Campus

4 graduate schools

5,150 scientists
incl. approx. 26 % from abroad

9 member institutions

5 International Max
Planck Research Schools

14 Associate Partners

755 professors and research group heads incl. approx. 14 % from abroad

10,000 non-scientific employees

International cutting-edge research at the Göttingen Campus

Member institutions

		the state of the s
Georg-August	University Medical	Göttingen Academy
University Göttingen	Centre Göttingen	of Sciences
German Aerospace	German	MPI for Multidisciplinary
Center (DLR)	Primate Centre	Science
MPI for Dynamics and Self-Organization	MPI for Solar System Research	MPI for the Study of Religious and Ethnic Diversity

Associate Partners

• Georg Eckert Institute (GEI) • Measurement Valley e. V. • Herzog August Library Wolfenbüttel • Institute für Nanophotonik Göttingen e. V. (IFNANO) • KWS Saat SE • Ottobock SE & Co. KGaA • Private University of Göttingen (PFH) • Phywe Systeme GmbH & Co. KG • Sartorius AG • Volkswagen AG • HAWK University of Applied Sciences and Arts • Nordwest German Forest Research Institute (NW-FVA) • Soziologisches Forschungsinstitut Göttingen (SOFI) • Leibniz Institute of Plant Genetics and Crop Plant Research (IPH Gatersleben)

A centre of science and research A centre of science and research A centre of science and research 23

Higher education institutions and research

Georg-August University Göttingen

Founded in 1737 and steeped in tradition, the Georg-August University Göttingen enjoys a global reputation as a leading international centre of research with over 30,000 students.

University of Applied Sciences and Arts

The HAWK University of Applied Sciences and Arts Hildesheim / Holzminden / Göttingen is represented in Göttingen by the Faculty of Engineering and Health, the Faculty of Resource Management and the Health Campus.

Private University of Göttingen

The PFH — Private University of Göttingen is Lower Saxony's oldest private, state-recognised university. Operating entirely without state funding, this higher education institution provides science and teaching with fresh impetus. It is attended by 400 students in person and a further 4000 students via distance learning.

Berufsakademie Göttingen and Verwaltungs und Wirtschaftsakademie

Top-level qualifications can be obtained at the Berufs-akademie Göttingen (BA) with its Dual degree courses in the fields of Business Administration and Health Care Management, or from the Verwaltungs- und Wirtschaftsakademie (VWA) in the key areas of Business Administration, Marketing, Logistics, Computer Science, Healthcare and Business English. 300 students are currently enrolled here.

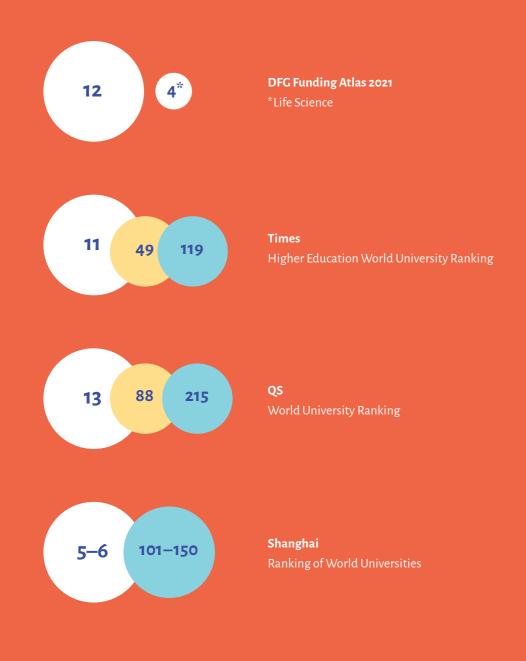


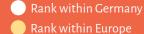
Lizzie's not interested in one-night stands.

Göttingen is a place where you stay.

A centre of science and research A centre of science and research A centre of science and research

Ranking results for the University of Göttingen





Rank worldwide

26

Attractive degree courses

Future-oriented courses

It is not just Göttingen's universities that benefit from the growing number of students in Germany. This is also good news for the city's demographics and the regional economy: Göttingen is a young city«. Around a quarter of its inhabitants are students, so the average age of the people there is quite low. This means there is also huge potential for specialist staff at this location.

In recent years the university has opened up even further to the world of business. The Private University of Göttingen (PFH) already showed itself to be strongly aligned with industry since its founding, describing itself as oriented to business, and the University of Applied Sciences and Arts (HAWK) has also carved out a niche for itself as a practical institution with a strong emphasis on research. In the case of the university however, it is only over the last decade that a marked trend towards openness became apparent. This gives rise to extreme synergies in cooperation with other institutions of higher education and industry.

Göttingen's entire university landscape has meanwhile tapped into the requirements of current and future labour markets, further developing courses on a thematic and organisational basis, in particular in terms of Dual or part-time study programmes, or creating them from scratch. With some 250 different degree courses, the university offers huge potential for development in coming years.

Future field of medical expertise

It is not only the University Medical Centre that focuses on future-oriented areas such as Healthcare Technology, but also the PFH. Its spatial proximity to the medical engineering company Ottobock was the impulse for this new direction, which combines expertise in orthopaedic technology with medicine, biomechanics, materials and engineering science.

This has resulted in the development of three degree courses, which are not available elsewhere in Europe: Orthobionics (Bachelor's), Medical Orthobionics (Master's) and Sports / Rehabilitation Engineering (Master's).

The Health Campus offers the following courses: Medical Engineering (Bachelor's), Nursing (Dual, Bachelor's), Therapy Sciences (Bachelor's), Medical Technology (Master's), Midwifery (Bachelor's) as well as Social Work in Healthcare (Bachelor's).

Technical / IT courses

Here too the PFH has responded to the needs of industry and introduced a Dual course in Business Informatics, which was launched in the winter semester of 2018 / 19. The impulse for this course once again came from industry, due to its need for IT experts, who are already included in the corporate process from an early stage.

With its Master's in Laser and Plasma Technology, the HAWK has established a degree course that caters for a key technology which – until now – had only been taught by a small number of centres in the world. The university additionally offers the course Applied Data Science (Bachelor's), which comes into play at the interface between mathematics, computer science and statistics. The situation is similar for its Bachelor's degree in Mathematical Data Science.

A centre of science and research A centre of science and research

Symbiosis of industry and science

In International companies have chosen Göttingen as the location for their head-quarters or key branches. They include the pharmaceutical and laboratory supplier Sartorius, the measurement technology firm Mahr, the logistics specialist ZUFALL, the IT business Sycor or the aluminium processer Novelis. Besides the successful DAX-listed company Symrise, the south of Lower Saxony is also home to two other international family firms: medical engineers Ottobock and the plant breeding and biotechnology business KWS Saat, both flagship enterprises in the region.

These cutting-edge companies are integrated in a land-scape of SMEs and hidden champions and enjoy technology leadership in their specialist fields. They in particular include life science, measurement and control technology, mechatronics, photonics, healthcare, logistics and IT. All contribute to raising Göttingen's international profile, acting as a magnet for specialist staff and shaping development in the city. Where science is concerned, they have proved to be outstanding cooperation partners.

These companies are characterised by a strong focus on R&D, above all in the life science and technology sectors, thus benefiting directly from their very close links to Göttingen's scientific institutions. Such proximity ensures immediate and continuous contact with scientists, junior staff and graduates of science via different channels of communication. Impressed by the available prospects, these academics then remain in Göttingen, supplying industry with the crucial human resource of specialist employees and driving forward innovation in the city.

Since 2016 the SüdniedersachsenInnovationsCampus (SNIC) has additionally fostered an intensive transfer of knowledge from science to industry, paving the way for a dynamic entrepreneurship culture with innovative start-ups.

Many strands of these activities come together at GWG Gesellschaft für Wirtschaftsförderung und Stadtentwicklung Göttingen mbH, which acts as the link between industry, the administrative authorities and politicians. Its prime objective is to advance sustainable growth and to assist companies and start-ups with all issues relevant to business.

Welcome to the south of Lower Saxony!

The function of the Welcome Centre is to help specialist staff, whether home-grown or from abroad who are relocating to Göttingen, both before and after arrival. Visit the Welcome Centre!

welcome-to-suedniedersachsen.de

Göttingen-the city that creates knowledge!

Göttingen is first and foremost the >city that creates knowledge«. The city's university remains world-famous for its work in the natural sciences. It easily holds its own in the multifaceted science landscape of today, enjoying an international ranking as one of Germany's elite universities – and with a link to over 40 Nobel prize winners! A research environment has developed around the university that is a frontrunner when it comes to scientific institutions: Four Max Planck Institutes, the Leibniz Institute for Primate Research, the German Aerospace Center as part of the Helmholtz Association and the Fraunhofer Application Center for Plasma and Photonics all create an international, highly dynamic environment where innovations come about on a daily basis. Göttingen identified this potential and has formalised the transfer of knowledge between science and industry in order to stimulate the regional startup culture and encourage local firms to come up with innovations.



28 A centre of science and research A centre of science and research 2

Göttingen as a conference venue



»In the heart of Germany« – it is the central location that entrepreneurs repeatedly stress when talking about the benefits Göttingen has to offer. This is plain from just a glance at a map: The central points calculated for the country are not only very close, two logistics axes also intersect right here: the north-south A7 motorway and east-west via the A2 / A38. The city's easy access is rounded off with a major ICE station and several nearby airports.

Göttingen – in the heart of Germany

It is these logistical conditions that make Göttingen so interesting not just for logistics, but also as a conference and event venue. The city is literally at the centre of action for every participant when it is a question of events with a nationwide catchment area.

There is a strong demand for venues suitable for conferences, congresses, trade fairs and corporate events, with the options available in Göttingen catering for a wide range of needs. Many venues are concentrated around the station, so ensuring excellent transport links, above all when travelling by rail, and the university itself offers other interesting locations. The size of the city (approx. 130,000 inhabitants) means that in Göttingen nothing is very far away, so guaranteeing easy accessibility. As a conference location Göttingen is characterised by its cosmopolitan attitude and international flair, resulting from the many different nationalities of the scientists living and working here. Wherever one goes, a vibrant atmosphere is felt in every corner of this young yet historic city.

fair are expected to reach 1500 people per day. Purely scientific conferences or the annual general meeting of Sartorius AG are also held at the Lokhalle.

The Lokhalle also undergoes continuous further development. It holds, for example, Green Globe certification and in this context has teamed up with Deutsche Bahn, the German railways, to offer a preent train ticket for events

Further information available at lokhalle.de

Conference capacities:

- Infrastructure: Located next to the ICE station; convenient links to the A7 and A38; ground-level accessibility for vehicles up to 40 tonnes.
- Floor areas: Event space totalling 9,400 m², consisting of three halls; Hall 3 can be subdivided into max. five different conference / workshop areas; capacity up to 4,000 persons seated in rows. This makes it possible to simultaneously organise lectures, exhibitions, catering and evening events in parallel.
- Hotel capacity: Two hotels with a total of 288 rooms can be found next to the Lokhalle.

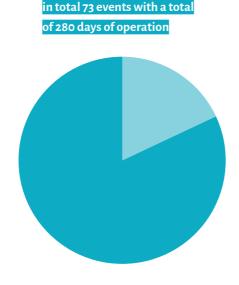
Average annual occupancy at the Lokhalle 2016 – 2019

Lokhalle

32

The Lokhalle in Göttingen, which once used to be an engine shed, has meanwhile become known throughout Germany as a major event venue. With the edgy fascination of a large-scale historic industrial complex, it not only caters for today's demanding requirements, but is also located next to Göttingen's station, just a short walk from the town centre. This also makes the Lokhalle a popular choice for corporate events. Conferences, congresses and company functions account for almost 20 % of all events staged at the former engine shed.

For example, Interpharm, Germany's largest scientific pharmacy congress, is scheduled to take place here in 2023, attended by pharmacists, pharmacy students and anyone employed in the sector. Visitor levels at this



on 40 days of operation

Göttingen as a conference venue Göttingen as a conference venue 33

University

With 13 faculties accommodating over 30,000 students, the historic University of Göttingen offers a wide range of spacious facilities for conferences, which are also available for use by outside companies or individuals. Different event venues can be easily scaled up to meet their needs: from a single meeting room seating 25 to conference areas catering for up to 2,500 attendees.

The university's events management team acts as the point of contact for functions, also offering advice on staging events, for example when catering is additionally involved.

For further information see uni-goettingen.de

Centre for Humanities

When staging large-scale conferences, symposia and congresses, it is possible to reserve lecture theatres and the foyer area of this building (ZHG) on the main campus outside of term time. The ZHG has eleven lecture halls seating between 85 and 960 people, allowing conferences with up to 2,500 participants to be held here. The lecture theatres have fixed seating and are equipped with all technology needed for events.

The foyer area on the ground floor is over 2,367 square metres in size, and the foyer on the first floor over 1,800 square metres. The foyers are suitable for the industry fairs held at conferences and also for organising catering at such events.

Conference and event centre Alte Mensa

Up to five event rooms with cutting-edge equipment are available at the former refectory, located in the city centre directly opposite the historic auditorium. The Alte Mensa is designed for conferences, symposia, congresses, workshops, training, receptions, lectures and exhibitions. Its rooms can accommodate 277, 224, 112, 112 and 56 people, with seating arranged in rows. Optional equipment is also available here.

Historic building of the university library: Paulinerkirche

With a floor area of 680 square metres, the large hall in the Paulinerkirche offers space for between 80 and 200 people (auditorium-style seating). It also offers a hall 280 square metres in size for up to 200 persons (auditorium-style seating), as well as two halls, each 100 square metres in size for up to 80 persons (auditorium-style seating) or 45 persons (conference seating).

Aula am Waldweg

The Aula am Waldweg is suitable for conferences and congresses. It can accommodate up to 350 persons with parliamentary-style seating and around 200 persons if tables are provided. The auditorium is 456 square metres in size, and the stage 123 square metres.

Heyne-Haus

Located in the town centre, the Heyne-Haus has two seminar rooms, which are suitable for small meetings and workshops. Each room has a fixed capacity of 24 persons, with tables arranged in a rectanglee.

Orangery in the Old Botanical Garden

The Orangery is a conservatory building in the historic Botanical Garden located in the city centre. It can be used for events from the middle of June to mid-September. With its remarkable ambience, this venue is not only perfect for concerts, readings and art exhibitions, but also for receptions and dinners. It has space for around 130 people seated in rows, up to 80 with tables, and can accommodate some 120 persons at standing receptions.

Historical Observatory

The place where Carl Friedrich Gauß once used to work is now primarily reserved for the Lichtenberg-Kolleg — The Göttingen Institute for Advanced Study. It is only available for external events and private hire in exceptional cases. The convention centre next to the observatory is suitable for holding conferences, congresses, workshops etc. with up to 150 persons. These facilities can be booked for scientific events staged by the university and institutions associated with it.

Outlook

Thomas Oppermann Cultural Forum in Forum Wissen

Forum Wissen, Germany's first knowledge museum, has opened right next to the ICE station in Göttingen.

This historic building of the former Zoology Institute is the site chosen to house the Thomas Oppermann

Cultural Forum and the Biodiversity Museum, with inauguration pencilled in for 2025.

The university particularly wishes to enter into dialogue with the general public at the Cultural Forum, which will house conference and event rooms for this purpose. At present it is planned to make these premises also available to external parties, who will then be able to take advantage of special facilities offered here in interaction with Forum Wissen and the Biodiversity Museum.



Quality of life in city and region



In love with Göttingen: that means butterflies in your stomach and your head full of plans for the future. Something that is ensured by the vibrant cultural scene, international communities, wide selection of cafés and restaurants and all the excitement of a city teeming with students.

A true medley of languages can be heard on its streets thanks to the many different nationalities working and studying at the university.

Cosmopolitan vibrancy and international flair

Göttingen leaves nothing to be desired as a metropolitan city. It owes its special charm to this mix of cosmopolitan vibrancy, the international flair of the academic community, not to mention the varied leisure opportunities Göttingen offers with nature on its doorstep. The lively town centre with its wide range of attractive retail outlets attracts numerous visitors on a daily basis. Göttingen is also characterised by its many independent shops – a special feature in this day and age. A varied programme of cultural events is likewise available at the city's four theatres and numerous venues. Many different landscapes between the Harz mountains and the Weser river are close by, offering opportunities for leisure activities such as cycling, hiking, climbing or water sports. Almost any sport imaginable is available at one of Lower Saxony's large sports associations or sporting events organised by the university.

»... the international flair of Göttingen is characterised by the countless young people there, who never cease coming up with new ideas.«

Göttingen – Germany's second-greenest city

Quality of life in the city

38

Satellite data shows that Göttingen is Germany's second-greenest city: 85% is made up of green spaces. Leisure and recreation are ensured by the many parks, gardens and large green areas found there: botanical gardens, the Schillerwiesen, Cheltenhampark, Göttingen's forest, the Kiessee lake. All these leisure facilities are just a walk from the town centre, just waiting to be explored or used for a barbecue in summer.

Göttingen is also surrounded by appealing villages for people who prefer a calmer living environment.

Thanks to the short commuting times, houses out of town easily hold their own against homes in the big city. It is possible to get about town easily without a car. This is ensured by a frequent public transport system that serves all parts of the city and the local area, as well as various car-sharing systems that have successfully established themselves in the town. Göttingen however really impresses with its facilities for cyclists. It is home to Germany's first inner-city e-bike highway, which already includes much of the city and is being extended further out. The large bike park very close to the station is the perfect place to leave a bicycle.

Information on Göttingen's tourist sights can be found at goettingen-tourismus.de

Surrounding region

People living here are spoilt for choice when it comes to enjoying landscapes in the south of Lower Saxony and the neighbouring parts of Thuringia and Hesse. The hills of the Weserbergland invite visitors to take a spin or try their hand at climbing while the Harz mountain range offers hiking in summer and skiing in winter. The Edersee dam is the place to go for water sports. The region around Göttingen is very unspoilt and is perfect for leisure activities, especially for anyone wanting to escape the hustle and bustle of the urban environment. It offers a real contrast to the big city, allowing people to make the most of life living out of town.



Göttingen in motion

Basketball

Göttingen's basketball team BG Göttingen, nicknamed >The Violets<, plays in the 1st basketball Bundesliga, directly bringing top-class sport with its thrilling atmosphere to the Sparkassen-Arena not far from the city centre. bggoettingen.de

Dancing

The A-Formation team of TSC Schwarz-Gold Göttingen has repeatedly competed at the top of the *Bundesliga* for a number of years and regularly win the title. Its members always delight audiences in their home town with outstanding performances. The team also shows its mettle at the German formation dancing championship, winning bronze at the last world championship in Moscow in 2019. Göttingen's ballroom dancing team currently holds the title of European Formation Standard Champion.

tsc-goettingen.de

Cycling

Every year the racing season of the German Cycling Club kicks off with the Tour d'Energie. Open to all cyclists, who can opt for a distance of either 45 or 100 km, this race takes entrants through the magnificent hilly landscape of the rivers Weser and Leine. tourdenergie.de

Football

For over 20 years Göttingen's Lokhalle has been the venue for the Sparkasse und VGH Cup, one of the most important international U19 five-a-side indoor football tournaments. In 2018 the cup was won by the team Manchester United. sparkasse-vgh-cup.de

Water sports

Göttingen offers a wide selection of water sports:
Badeparadies Eiswiese, three open-air swimming pools and the Kiessee lake leave nothing to be desired, while Olympic-standard canoe polo players bring top-level teams to the city.

badeparadies.de goesf.de

Quality of life in city and region Quality of life in city and region 39

Culture – a moving experience

Cultural and urban vibrancy Event locations and arts-based events

Lokhalle

When it comes to event venues in the city, the versatile Lokhalle is the jewel in the crown. It was originally built as a locomotive erecting shop at the railway repair works. After falling into ruin, it was then renovated along with the surrounding quarter and has been used as a venue for events since 1998. The historic engine shed is the perfect platform for regional cultural performances: concerts, for example those by Göttingen's symphony orchestra, touring shows and musicals, social functions such as proms and balls, New Year receptions, corporate events, works assemblies, congresses, conferences, trade fairs, conventions and exhibitions.

Theatres

The Deutsches Theater stages both classical performances and new productions, while the Junges Theater shows an up-to-the-minute questioning eye for innovative content and aesthetics. The drama on offer in Göttingen also includes the Theater im OP (ThOP for short) managed by the Drama department of the university's Seminar for German Philology. Last but not least, the award-winning Freies Theater boat people project repeatedly tackles modern-day issues such as migration and integration.

dt-goettingen.de junges-theater.de thop.uni-goettingen.de boatpeopleprojekt.de

Festivals

Göttingen's International Handel Festival is well known to connoisseurs of classical music all over the world, attracting a global audience to performances and concerts, while its platform for modern literature, Literaturherbst, is held each year in autumn.

haendel-festspiele.de/en literaturherbst.com

Forum Wissen

2022 Forum Wissen, Germany's first knowledge museum, was opened in 2022 as a new kind of academic museum. Its aim is not such much to showcase collections of exhibits from the universities, but to present the actual process of research, illustrating and demonstrating how knowledge comes into being. At the same time it hopes to also make scientific work more understandable and initiate debate with an increasingly critical public. Forum Wissen sees itself committed to a new self-image of science: despite such work going on behind closed doors so only the researchers involved can interpret the results, it encourages them to open up and face criticism from the outside world.

forum-wissen.de/en/home/en

KunstQuartier

The KunstQuartier or KuQua for short is part of the town's historic centre that is a magnet to artists and creative minds. Kunsthaus Göttingen was opened at the heart of this district in 2021. The exhibitions staged here revolve around contemporary art forms such as photography, video, drawing and print as well as book and poster art. With publisher Gerhard Steidl as the voluntary founding director, the Kunsthaus is headed up by a dedicated figure of international repute.

kunsthaus-goettingen.de/english/kunsthaus

The highlights of events held in Göttingen include the Night of Knowledge staged by the University of Göttingen, the Handel Festival with opera, concerts and readings for international fans of the classics, Göttingen's Literaturherbst, starring literary heavyweights and aspiring authors, as well as NDR 2's Soundcheck Festival and the Night of Culture as a major music event in the city centre.



Lokhalle Göttingen

It is not just the foundation of innovative companies that characterise a location, but also its cultural appeal. This >soft< factor for attracting people to a site has a name in the south of Lower Saxony: Lokhalle Göttingen.

A beacon of culture for the region

Inaugurated as a venue for events over 20 years ago, this meticulously restored architectural masterpiece with its three halls including access for the disabled has a total floor area of 9,400 square metres as well as outside space of 7,000 square metres. It consequently offers a unique and spectacular ambience for large-scale functions and performances such as corporate events, concerts, fairs, conferences, congresses, sports and TV productions. The many awards conferred by different sectors are proof of the outstanding reputation enjoyed by the Lokhalle well beyond its local region. Viable event concepts ensure that this will remain so for years to come.

Outstanding event venue in the heart of Germany

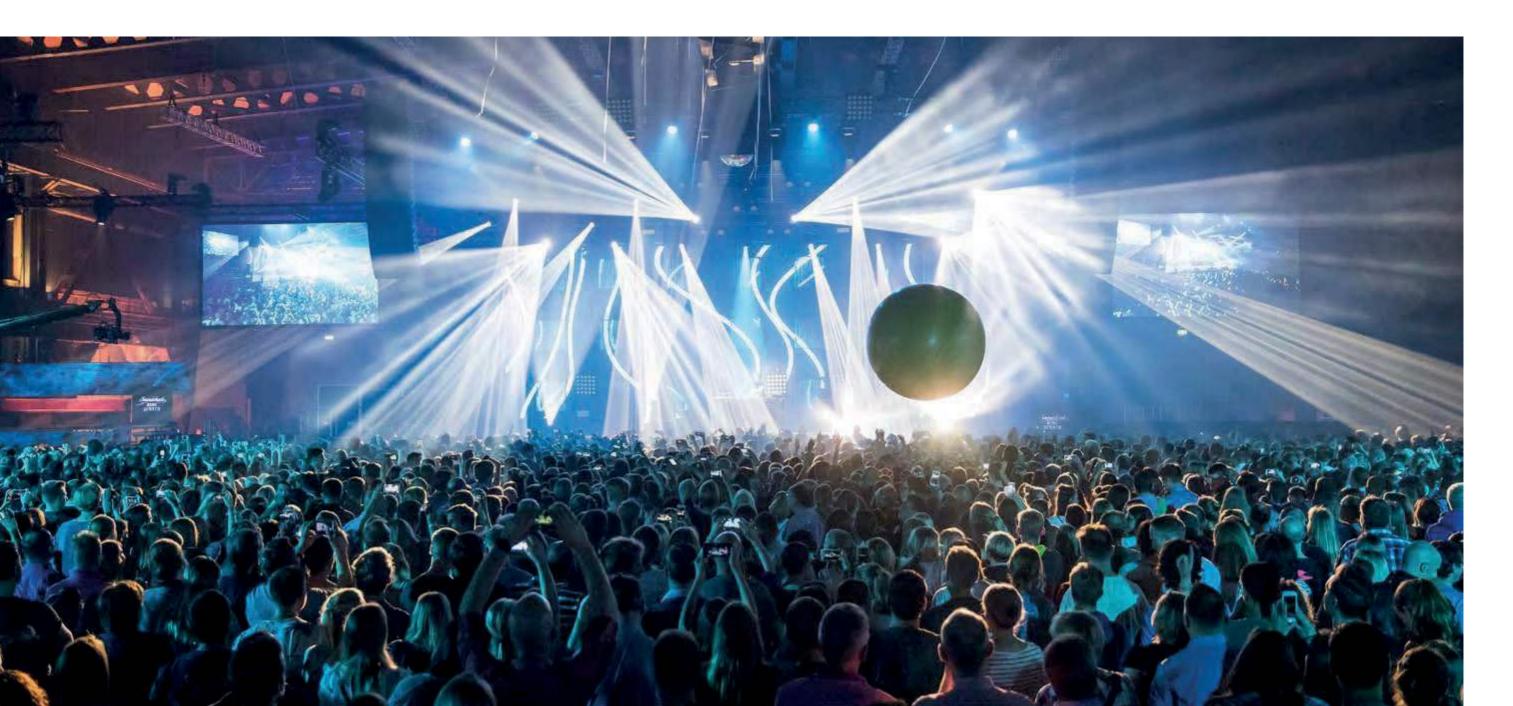
- In 2009 the Lokhalle was named Best Event Hall (max. seating capacity 4,000) by the European Association of Event Centers (EVVC).
- In 2012 it received international > Green Globe < sustainability certification.
- In 2015 the Lokhalle was presented with the Location Award as > Best Event Hall (in the category Industrial Culture.

3 spectacular halls

Green Globe certification

Space for 150 to 7,500 persons

Floor area of 9,400 square metres for events



The GWG team.



»We are committed to a dynamic site in a region that's a great place to live.«

GWG Gesellschaft für Wirtschaftsförderung und Stadtentwicklung Göttingen mbH stands for modern, competent promotion of business that revolves around the customer. Our concern is the city, the region and the companies based there, while watching out for what the future might bring.

We strive to boost Göttingen's appeal as a centre of business to ensure the best possible conditions for creating new jobs and safeguarding those in existence.

GWG-Gesellschaft für Wirtschaftsförderung und Stadtentwicklung Göttingen

Our mission is wide-ranging, encompassing the promotion of business, project development and event management. Working closely with the state of Lower Saxony, the German government, the universities and research institutes, the GWG devises solutions to all issues involving the development of companies and advancement of the city as a site of activity. Operated by the GWG, the Lokhalle ensures that Göttingen is known as a cultural and event venue beyond local boundaries, so helping to raise the profile of the site as an exceptional destination. Further information can be found at gwg-online.de

»Cultivating a positive climate for start-ups in Göttingen and the surrounding region and encouraging people to set up a business – that too is one of our goals.«

Joining forces for a strong region

Consultancy and development

As an experienced service provider for promoting business, the GWG in Göttingen is the first port of call for all issues involving corporate and location development. The GWG is able to offer detailed advice and information about the infrastructure available in the city and suitable commercial sites, assisting with start-ups, relocations, business expansion and company acquisitions. This is tailored to the needs and objectives of our customers, with a special emphasis on economic efficiency and support options.

The GWG not only helps companies with approval procedures, but also assists entrepreneurs with setting up a company and facilitates cooperation in many different networks. We offer everyone entering into business opportunities that will help ensure their success right from the start.

Business development

Consultancy services for companies, support with startups, creation of networks as well as technological advice (SNIC) and location marketing

Project development

Development, negotiation, sale and letting of commercial sites and real estate in Göttingen.

Event management

Operation of Göttingen's largest event halls, the Lokhalle and the Stadthalle concert centre

Network management

IT InnovationsCluster Göttingen / Lower Saxony South,
Health Region Göttingen / Lower Saxony South,
L|MC Logistik- und MobilitätsCluster Göttingen / Lower
Saxony South.

Find yourself here. See below for six good reasons to choose Göttingen:

Location

Right in the centre of Germany at the intersection of the A7 motorway, the north-south axis of Germany, and the east-west routes of the A2/A38, between the Ruhrgebiet and Eastern Europe

Quality of life

A city full of young people, a great place to live, where everything is nearby, set in an unspoilt, multifaceted region between Weser and Harz

Dynamism

Characterised by strong urban and corporate growth. A landscape of knowledge with top-level research going on at 3 higher education institutions and 7 non-university research centres

Support for start-ups

Excellent conditions thanks to intensive cultivation of entrepreneurial spirit at the universities and close links between science and local industry

Specialist staff

The 33,000 students currently based in Göttingen are the highly qualified staff of tomorrow

Innovative potential

A direct and flexible transfer of knowledge thanks to a close network of consultants between science and industry

The GWG Team.

The GWG Team.

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>NDR2 Soundcheckfestival in der Lokhalle«

Keeping business on the right track.



Comprehensive services for business next to the station. www.gwg-online.de