



Healthy Prospects Land of Life Sciences

Life Sciences in Niedersachsen

Nanoscale Microscopy and Molecular Physiology of the Brain (CNMPB) – Göttingen

- New optics technologies for neuroscience and neurological research on the Göttingen Campus
- High-resolution microscopy techniques to analyse minute structures and processes in living nerve cells
- Aim: new diagnostic and therapeutic strategies for diseases such as Parkinson's and schizophrenia
- Göttingen: home of the 2014 Nobel laureate, Stefan Hell, who invented STED microscopy, revolutionising light microscopy and making possible new insights of living cells

Hearing4all – Hannover/Oldenburg:

- Major centre of excellence in hearing technology with research at the Oldenburg and Hannover hearing centres, Hannover Medical School (MHH), renowned international businesses such as Cochlear, Med-el, Advanced Bionics, Sennheiser and Kind Hörgeräte (hearing aids)
- Around 80% of the hearing aids sold around the world contain results of research in Niedersachsen
- The largest number of cochlear implants worldwide is carried out at the Hannover Medical School

Rebirth – Hannover:

- Seven institutions active in Regenerative Biology and Reconstructive Therapies
- Four research areas: Clinical Translation & Regenerative Products, Regenerative Technologies, Regeneration in Disease Models and Basic Sciences in Regeneration focussing on blood, liver, heart and lung

Core Competencies and Expertise

Medical Technology

- Outstanding centre for implant research
- Niedersachsen Centre for Biomedical Technology and Implant Research (NIFE): joint translational research centre of Hannover Medical School, Leibniz University, School of Veterinary Medicine Hannover and Laser Centre Hannover; Focus: development of cardiovascular, audio-neurological, musculoskeletal and dental implants
- Orthopaedic technology: the global market leader Otto Bock is located in Duderstadt.

Healthcare

- One in seven of the working population is employed in the health sector.
- About 200 hospitals with around 42,000 hospital beds
- Home of two of Germany's leading medical training and healthcare institutions:
Hannover Medical School is world famous for transplantation medicine and related immunological fields
Göttingen University School of Medicine has a strong focus on neuroscience and cardiovascular diseases.

Bioeconomy

- Exceptional research capacity in diverse key areas of bio-economics e.g., energy and in food and nutritional science, and also a bio-economy-oriented industry
- NieKE – the Niedersachsen competence centre for the food industry – combines available competences and expertise in agriculture and the food sector.

Niedersachsen Profile

Companies

Niedersachsen is home of about 140 Life Science companies and about 50 medical technology companies.

Education and Research

21 colleges and universities and more than 30 non-university research institutions are based here.

Incubators

Niedersachsen has four start-up centres focusing on biotechnology: in Hannover, Göttingen, Braunschweig and Wilhelmshaven.

Trade Fairs

- LABVOLUTION (smartlab, lab 4.0)

Networks

Life Science · www.bioregion.de
 TRAIN · www.translationsallianz.de
 E-health · www.ehealth-niedersachsen.de
 Photonic Net · www.photonicnet.de
 PPA · www.ppa-netzwerk.de

Our Service

- Independent advice on the market, framework conditions and funding possibilities
- Location scouting: industry-specific location search, first contact service
- Support and advice on investment realisation
- Introductions to networks

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Invest in



Niedersachsen

Welcome to Niedersachsen!



With its focus on 'red biotechnology' and developing related products for therapeutics, diagnostics and vaccines, Niedersachsen is among the top Life Sciences regions in Germany. Digitalisation is an integral part of modern life sciences, especially in the fields of lab automation and big data. The intelligent laboratory of the future is already being developed and tested, at SmartLAB. The electronic implant pass makes an important contribution to patient safety.

Our core competencies are in infection biology, neurobiology and regenerative medicine. Niedersachsen has a high profile in this sector thanks to more than 200 life science companies based here as well as the leading biotechnology fair, LABVOLUTION. Many Niedersachsen companies are also active in the fields of diagnostics, environmental biotechnology, bioprocess engineering, veterinary medicine and marine biotechnology.

The 'BioRegion – Life Sciences Niedersachsen' cluster initiative provides a networking hub to connect partners in business and science. The initiative's main goal is to bring the tremendous potential for excellent research results in Niedersachsen to the market quickly and effectively.

Explore the various opportunities in Niedersachsen's Life Sciences sector for yourself! The location team at the State Ministry for Economic Affairs, Employment, Transport and Digitalisation will be pleased to advise and support you on all aspects of planning and practical implementation.

Yours,

Dr. Bernd Althusmann

Niedersachsen Minister of Economic Affairs, Employment, Transport and Digitalisation



- Biotech companies**
- Biomedical technology companies**
- Start-up centers focusing on biotechnology**
- Institutes**
 - Braunschweig*
 - Helmholtz Centre for Infection Research, Braunschweig
 - DSMZ, German Collection of Microorganisms and Cell Cultures, Braunschweig
 - Julius Kühn-Institut – Federal Research Centre for Cultivated Plants, Braunschweig
 - Johann Heinrich von Thünen-Institut, Federal Research Institute for Rural Areas, Forestry and Fisheries, Braunschweig
 - DZIF, German Centre for Infection Research, Braunschweig
 - National Metrology Institute (PTB), Braunschweig
 - Braunschweig Integrated Centre of Systems Biology (BRICS)
 - Fraunhofer Institute for Surface Engineering and Thin Films
 - Center of Pharmaceutical Engineering (PVZ) of the TU Braunschweig
 - Göttingen*
 - Max Planck Institute for Biophysical Chemistry, Göttingen
 - Max Planck Institute of Experimental Medicine, Göttingen
 - Max Planck Institute for Dynamics and Self-Organization, Göttingen
 - German Primate Center, Göttingen
 - European Neuroscience Institute, Göttingen
 - Bernstein Center for Computational Neuroscience, Göttingen
 - German Center for Cardiovascular Research (DZHK), Göttingen
 - German Center for Neurodegenerative Diseases (DZNE), Göttingen
 - Center for Multimodal Imaging (Theodor Förster Institute), Göttingen
 - Center for Nanoscale Microscopy and Molecular Physiology of the Brain (CNMPB)
 - Laser-Laboratorium Göttingen e.V.
 - Hannover*
 - TWINCORE, Hannover

- Fraunhofer Institute of Toxicology and Experimental Medicine (ITEM), Hannover
- Clinical Research Center Hannover
- International Neuroscience Institute Hannover
- VIANNA (Combined Institute for Audio-Neurotechnology and Nanomaterials), Hannover
- CrossBit (Combined Institute for Biocompatibility and Implant Immunology), Hannover
- NIFE, Lower Saxony Centre for Biomedical Engineering, Implant Research and Development, Hannover
- German Center for Respiratory Research (DZL), Hannover
- Laser Zentrum Hannover e.V. (LZH)
- Translationsallianz Niedersachsen (TRAIN)
- Oldenburg*
 - HörTech gGmbH, Hearing technology, Oldenburg
 - Fraunhofer Institute for Digital Media Technology
- Quakenbrück*
 - German Institute for Food Technology (DIL) e.V.
- Universities**
 - University of Veterinary Medicine Hannover, Foundation
 - Hannover Medical School
 - Leibniz University, Hannover
 - University of Applied Sciences and Art, Hannover
 - Technical University Carolo-Wilhelmina, Braunschweig
 - Ostfalia University of Applied Sciences, Salzgitter, Wolfenbüttel
 - Georgia Augusta University, Göttingen
 - University of Applied Sciences and Art, Hildesheim, Holzminden & Göttingen
 - Carl von Ossietzky University, Oldenburg
 - Jade University of Applied Sciences, Wilhelmshaven
 - University of Osnabrück
 - Osnabrück University of Applied Sciences
 - Leuphana University, Lüneburg
 - Clausthal University of Technology
 - University of Applied Sciences, Emden & Leer
 - University of Vechta