



Research in Germany

GEOSCIENCES AND
ENVIRONMENTAL SCIENCES



Research in
Germany

Land of Ideas
www.research-in-germany.org





Research in Germany

Imprint

Published by: German Research Foundation (DFG), Bonn, Germany

Editor: Vera Pfister

Assistant Editor: Annina Lottermann

Assistance: Sonja Schaffartzik

Contact: researchmarketing@dfg.de

Sources: DFG, Helmholtz Association, Leibniz Association,
Max Planck Society, Federal Ministry of Education and Research

Graphic Design: KLINKEBIEL GmbH Kommunikationsdesign, www.klinkebiel.com

Printed by: DCM Druckcenter Meckenheim GmbH, www.druckcenter.de

Cover Photo Credits: iStock.com ® adventtr

© DFG, November 2016

This publication was funded by the German Federal Ministry of Education and Research.

GEOSCIENCES AND ENVIRONMENTAL
SCIENCES

PREFACE

This brochure provides a first insight into research in Germany in the fields of geosciences and environmental sciences and is especially recommended to early career researchers from abroad.

Research in geosciences and environmental sciences in Germany is primarily conducted at universities but also at non-university research institutions. Almost all universities host a section in these scientific fields. The spectrum ranges from small monothematic working groups to large interdisciplinary departments and covers a variety of topics from traditional areas to new explorative research fields.

This brochure is intended to give an initial overview. The following map and tables highlight research consortia and graduate training programmes at universities and non-university research institutes with a main focus on geosciences and environmental sciences.

On top of this, there is a lot more to discover: e.g. the DFG funds a multitude of individual projects in the area of geosciences and environmental sciences. These individual grants outweigh the research consortia both in number and in overall funding volume. Towards the end of this brochure, you will find a link to the online database GEPRIS that provides an overview of all DFG funded research projects. You will also find additional important links for further information about programmes in the fields of geosciences and environmental sciences and profiles of German universities and research institutions.

We invite you to explore the many opportunities that Germany has to offer and welcome your feedback.

CENTRES OF RESEARCH

- FUNDED BY DFG -

Clusters of Excellence (EXC) were established at universities in the framework of the German Excellence Initiative and promote cutting-edge research. Their objective is to engage in scientific networking and collaboration in research fields of particular promise for the future. They also offer excellent training conditions and career opportunities for early career researchers.

Collaborative Research Centres (CRC) are organisational units established at universities which enable researchers to pursue an outstanding research programme crossing the boundaries of disciplines, institutes, departments and faculties. The traditional Collaborative Research Centre is generally applied for by one university and is conducted by researchers of that university. Early career support is a key objective of the Collaborative Research Centre Programme. Early career researchers may get involved in a CRC in numerous ways, for example within the framework of an Integrated Research Training Group. Collaborative Research Centres are funded for a period of up to 12 years.

Transregios (TRR) are Collaborative Research Centres in which up to three universities collaborate with each other and submit a joint application. The contributions of the cooperative partners are essential, complementary and synergetic to the joint research objective. Funding facilitates close, nationwide collaboration among the participating universities and researchers, as well as networking and shared use of resources. There is also the option of international Transregios.

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
CLUSTERS OF EXCELLENCE				
 Bremen	Universität Bremen	The Ocean in the Earth System - MARUM - Center for Marine Environmental Sciences (EXC 309)	2007	www.marum.de
 Hamburg	Universität Hamburg	Integrated Climate System Analysis and Prediction (CliSAP) (EXC 177)	2007	www.clisap.de
 Kiel	Christian-Albrechts-Universität zu Kiel	The Future Ocean (EXC 80)	2006	www.futureocean.org
COLLABORATIVE RESEARCH CENTRES				
 Cologne	Universität zu Köln	Earth - Evolution at the Dry Limit (CRC 1211)	2016	http://sfb1211.uni-koeln.de
 Cologne	Universität zu Köln	Our Way to Europe: Culture-Environment Interaction and Human Mobility in the Late Quaternary (CRC 806)	2009	www.sfb806.de
 Hannover	Gottfried Wilhelm Leibniz Universität Hannover	Relativistic Geodesy and Gravimetry with Quantum Sensors (geo-Q) (CRC 1128)	2014	www.geoq.uni-hannover.de
 Jena	Friedrich-Schiller-Universität Jena	AquaDiva: Understanding the Links between Surface and Subsurface Biogeosphere (CRC 1076)	2013	www.aquadiva.uni-jena.de
 Kiel	Christian-Albrechts-Universität zu Kiel	Climate-Biogeochemistry Interactions in the Tropical Ocean (CRC 754)	2007	www.sfb754.de
 Tübingen	Eberhard Karls Universität Tübingen	Catchments as Reactors: Metabolism of Pollutants on the Landscape Scale (CAMPOS) (CRC 1253)	2016	tba
COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS				
 Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	Patterns in Soil-Vegetation-Atmosphere-Systems: Monitoring, Modelling and Data Assimilation (TRR 32)	2006	http://tr32new.uni-koeln.de
Bonn	Rheinische Friedrich-Wilhelms-Universität Bonn			
Cologne Jülich	Universität zu Köln Forschungszentrum Jülich			

CENTRES OF RESEARCH

Location	Institution	Title	Funded Since	Contact
<p>■ Berlin</p> <p>Münster</p>	<p>Freie Universität Berlin Technische Universität Berlin</p> <p>Westfälische Wilhelms-Universität Münster</p>	<p>Late Accretion onto Terrestrial Planets (LATP) (TRR 170)</p>	2015	<p>www.TRR170-lateaccretion.de</p>
<p>■ Bremen</p> <p>Cologne</p> <p>Leipzig</p>	<p>Universität Bremen</p> <p>Universität zu Köln</p> <p>Universität Leipzig</p>	<p>ArctiC Amplification: Climate Relevant Atmospheric and SurfaCe Processes, and Feedback Mechanisms (AC)3 (TRR 172)</p>	2015	<p>http://ac3-tr.de</p>
<p>■ Bremen</p> <p>Hamburg</p>	<p>Universität Bremen</p> <p>Universität Hamburg</p>	<p>Energy Transfers in Atmosphere and Ocean (TRR 181)</p>	2016	<p>www.trr-energytransfers.de</p>
<p>■ Karlsruhe</p> <p>Mainz</p> <p>Munich</p>	<p>Karlsruher Institut für Technologie</p> <p>Johannes Gutenberg- Universität Mainz</p> <p>Ludwig-Maximilians- Universität München</p>	<p>Waves to Weather (TRR 165)</p>	2015	<p>w2w.meteo.physik.uni-muenchen.de</p>



RESEARCH UNITS

-FUNDED BY DFG-

Research Units (FOR) often contribute to establishing new research directions. Research Units are made up of a team of researchers working together on a research project which is often of an interdisciplinary nature. Research Units consist of several researchers and subprojects. The subprojects of a Research Unit are often located at several locations throughout Germany. Research Units are generally funded for up to six years.

Research Units are not shown on the map. Only the titles of the thematic focus and the project websites are listed.



RESEARCH UNITS

Title	Funded Since	Contact
Matter Under Planetary Interior Conditions - High-Pressure, Planetary and Plasma Physics (FOR 2440)	2016	tba
Space-Time Dynamics of Extreme Floods (SPATE) (FOR 2416)	2016	tba
Mountain Exile Hypothesis (FOR 2358)	2016	http://gepris.dfg.de/gepris/projekt/270995238
Temperature-Related Stresses as a Unifying Principle in Ancient Extinctions (TERSANE) (FOR 2332)	2016	www.gzn.fau.de/palaeoumwelt/projects/tersane
Structures, Properties and Reactions of Carbonates at High Temperatures and Pressures (FOR 2125)	2015	www.uni-frankfurt.de/48626215/for2125
Multiscale Dynamics of Gravity Waves (MS-GWaves) (FOR 1898)	2014	https://ms-gwaves.iau.uni-frankfurt.de
Data Assimilation for Improved Characterization of Fluxes across Compartmental Interfaces (FOR 2131)	2013	www.for2131.de
A New Approach toward Improved Estimates of Atlantic Ocean Freshwater Budgets and Transports as Part of the Global Hydrological Cycle (FOR 1740)	2013	http://for1740.zmaw.de
CHARON: Marine Carbonate Archives: Controls on Carbonate Precipitation and Pathways of Diagenetic Alteration (FOR 1644)	2013	www.ruhr-uni-bochum.de/charon
Urban Climate and Heat Stress in Mid-Latitude Cities in View of Climate Change (UCaHS) (FOR 1736)	2012	www.ucahs.org
From Catchments as Organised Systems to Models based on Dynamic Functional Units (CAOS) (FOR 1598)	2011	www.caos-project.de
INUIT - Ice Nuclei Research UnIT (FOR 1525)	2011	www.ice-nuclei.de
Mapping on Demand (MoD) (FOR 1505)	2011	www.ipb.uni-bonn.de/projects/MoD
Space-Time Reference Systems for Monitoring Global Change and for Precise Navigation in Space (FOR 1503)	2011	ww2.erdrotation.de
Stratospheric Change and its Role for Climate Prediction (SHARP) (FOR 1095)	2009	www.geo.fu-berlin.de/sharp
Experimental Impact Cratering - The MEMIN Program (Multidisciplinary Experimental and Modeling Impact Research Network) (FOR 887)	2009	www.memin.de
Multi-Scale Interfaces in Unsaturated Soil (MUSIS) (FOR 1083)	2008	www.musis.uni-hannover.de
Nanoscale Processes and Geomaterials Properties (FOR 741)	2007	http://for741.de

PRIORITY PROGRAMMES

- FUNDED BY DFG -

Priority Programmes (SPP) have a programmatic focus and the purpose of advancing knowledge in an emerging field of research through collaborative networked support. They are characterised by their enhanced quality of research through the use of new methods and forms of collaboration in emerging fields. As a rule, one programme can consist of up to 30 individual subprojects located at several institutions across Germany; it usually has one coordinating person. Priority Programmes normally receive funding for a period of up to six years.

Priority Programmes are not shown on the map. Only the titles of the overall themes and the project websites are listed.



PRIORITY PROGRAMMES

Title	Funded From	Contact
Mountain Building Process in Four Dimensions (4D-MB) (SPP 2017)	2016	www.spp-mountainbuilding.de
Title	Funded Since	Contact
Volunteered Geographic Information: Interpretation, Visualisation and Social Computing (SPP 1894)	2016	http://kartographie.geo.tu-dresden.de/spp_vgi
Regional Sea Level Change and Society (SeaLevel) (SPP 1889)	2016	www.spp-sealevel.de
Building a Habitable Earth (SPP 1833)	2015	www.habitableearth.uni-koeln.de
EarthShape: Earth Surface Shaping by Biota (SPP 1803)	2015	www.earthshape.net
Study of Earth System Dynamics with a Constellation of Potential Field Missions (DynamicEarth) (SPP 1788)	2015	www.spp-dynancearth.de
Climate Engineering: Risks, Challenges, Opportunities? (SPP 1689)	2013	www.spp-climate-engineering.de
Planetary Magnetism (PlanetMag) (SPP 1488)	2010	www.planetmag.de (DE)
Atmospheric and Earth System Research with the "High Altitude and Long Range Research Aircraft" (HALO) (SPP 1294)	2007	www.uni-frankfurt.de/44037420/Halo (DE)
Antarctic Research with Comparative Investigations in Arctic Ice Areas (SPP 1158)	2003	www.spp-antarktisforschung.de
International Continental Drilling Program (ICDP) (SPP 1006)	1995	www.geo.uni-potsdam.de/ICDP_Homepage
Ocean Drilling Program/Deep Sea Drilling Project (IODP) (SPP 527)	1978	www.iodp.org



The Helmholtz Association contributes to solving major challenges facing society, science and industry with world-level research in six areas: energy, earth and environment, health, key technologies, structure of matter and aeronautics, space and transport. With more than 34,000 employees in 18 research centres and an annual budget of approximately 3.76 billion euros, the Helmholtz Association is Germany's largest scientific organisation. www.helmholtz.de

The Leibniz Association is an umbrella organisation of 89 research institutes. The annual budget amounts to 1.45 billion euros. Some 8,800 researchers – more than 1,100 of them from abroad – work on a widely diverse range of subjects, including the humanities and social sciences, economics, spatial and life sciences, mathematics, natural and engineering sciences and environmental research. www.leibniz-association.eu

The Max Planck Society for the Advancement of Science is one of Germany's largest independent non-profit research organisations. The Max Planck Society has been allocated approximately 1.7 billion euros for 2015. A combined total of more than 11,000 researchers, postdoctoral/junior researchers and visiting researchers at 83 Max Planck Institutes conduct basic research in the natural sciences, life sciences, social sciences and humanities. One third of the researchers and more than half of the junior and visiting researchers come from abroad. www.mpg.de

Location	Institution	Contact
HELMHOLTZ CENTRES		
● Bremerhaven	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI)	www.awi.de
● Cologne	German Aerospace Center (DLR)	www.dlr.de
● Geesthacht	Helmholtz-Zentrum Geesthacht - Centre for Materials and Coastal Research (HZG)	www.hzg.de
● Jülich	Forschungszentrum Jülich (FZ Jülich)	www.fz-juelich.de
● Karlsruhe	Karlsruhe Institute of Technology (KIT)	www.kit.edu
● Kiel	GEOMAR Helmholtz Centre for Ocean Research Kiel	www.geomar.de
● Leipzig	Helmholtz Center for Environmental Research (UFZ)	www.ufz.de
● Potsdam	Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences	www.gfz-potsdam.de
LEIBNIZ INSTITUTES		
● Berlin	Leibniz Institute for Crystal Growth (IKZ)	www.ikz-berlin.de
● Berlin	Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB)	www.igb-berlin.de
● Berlin	Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science (MfN)	www.naturkunde-museum-berlin.de
● Bochum	Deutsches Bergbau-Museum - German Mining Museum Bochum (DBM)	www.bergbaumuseum.de
● Bremen	Leibniz Center for Tropical Marine Ecology (ZMT)	www.zmt-bremen.de
● Dresden	Leibniz Institute of Ecological Urban and Regional Development (IOER)	www.ioer.de
● Hannover	Leibniz Institute for Applied Geophysics (LIAG)	www.liag-hannover.de
● Frankfurt	Senckenberg Research Institute and Natural History Museum	www.senckenberg.de
● Kühlungsborn	Leibniz Institute of Atmospheric Physics at the University Rostock (IAP)	www.iap-kborn.de
● Leipzig	Leibniz Institute for Regional Geography (IFL)	www.ifl-leipzig.de
● Leipzig	Leibniz Institute for Tropospheric Research (TROPOS)	www.tropos.de
● Müncheberg	Leibniz Centre for Agricultural Landscape Research (ZALF)	www.zalf.de
● Potsdam	Potsdam Institute for Climate Impact Research (PIK)	www.pik-potsdam.de
● Warnemünde	Leibniz Institute for Baltic Sea Research Warnemünde (IOW)	www.io-warnemuende.de
● Wilhelms-haven	Senckenberg by the Sea	www.senckenberg.de
MAX-PLANCK-INSTITUTES		
● Bremen	Max Planck Institute for Marine Microbiology (MPI-MM)	www.mpi-bremen.de

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Göttingen	Max Planck Institute for Solar System Research (MPS)	www.mps.mpg.de
● Hamburg	Max Planck Institute for Meteorology (MPI-M)	www.mpimet.mpg.de
● Jena	Max Planck Institute for Biogeochemistry (BGC-Jena)	www.bgc-jena.mpg.de
● Mainz	Max Planck Institute for Chemistry (MPIC)	www.mpic.de
● Marburg	Max Planck Institute for Terrestrial Microbiology (MPI-Marburg)	www.mpi-marburg.mpg.de
OTHERS		
● Bayreuth	Bavarian Research Institute of Experimental Geochemistry and Geophysics, University of Bayreuth (BGI)	www.bgi.uni-bayreuth.de
● Bochum	International Geothermal Center (GZB)	www.geothermiezentrum.de
● Braunschweig	Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries	www.ti.bund.de
● Frankfurt	Federal Agency for Cartography and Geodesy (BKG)	www.bkg.bund.de
● Frankfurt	Institute for Social-Ecological Research (ISOE)	www.isoe.de
● Hannover	Federal Institute for Geosciences and Natural Resources (BGR)	www.bgr.bund.de
● Koblenz	German Federal Institute of Hydrology (BfG)	www.bafg.de
● Mülheim	IWW Water Centre	www.iww-online.de
● Munich	Bayerische Staatssammlung für Paläontologie und Geologie	www.palmuc.de/bsp (DE)
● Munich	Commission for Glaziologie of the Bavarian Academy of Sciences and Humanities	www.glaciology.de
● Offenbach	Germany's National Meteorological Service (DWD)	www.dwd.de
● Schiltach	Black Forest Observatory (BFO)	www.bfo.geophys.uni-stuttgart.de
● Wilhelmshaven	Lower Saxony Institute for Historical Coastal Research (NIHK)	www.nihk.de
● Zugspitze	Environmental Research Station Schneefernerhaus	www.schneefernerhaus.de

NON-UNIVERSITY RESEARCH INSTITUTIONS

Location	Institution	Contact
● Berlin	State Geological Surveys of Germany (GSO)	www.infogeo.de
Bremen		
Cottbus		
Dresden		
Flintbek		
Freiburg		
Güstrow		
Halle/Saale		
Hamburg		
Hannover		
Hof		
Krefeld		
Mainz		
Saarbrücken		
Weimar		
Wiesbaden		

GRADUATE TRAINING










- FUNDED BY DFG -

Research Training Groups (RTG) combine an ambitious research programme at universities with comprehensive training, tailored supervision and academic freedom to form an ideal environment for a successful doctorate. Research Training Groups can also have an interdisciplinary approach. They are funded for a period of up to nine years.



International Research Training Groups (IRTG) provide opportunities for joint doctoral training programmes between German universities and universities abroad. The research and study programmes are jointly developed and supervised. Doctoral students in the programme spend six months at the partner institution.

Integrated Research Training Groups (within Clusters of Excellence or Collaborative Research Centres/Transregios) offer ideal research environments for doctoral researchers. The main aim of these structured training programmes is to provide young scientists and academics with opportunities to independently carry out research at an early stage of their career. The programmes further take care to closely integrate early career researchers into an academic network. Working in Clusters of Excellence or Collaborative Research Centres projects, doctoral researchers achieve additional qualifications. As research assistants in these projects, they contribute to the Research Centre's success. They are closely involved with the projects and have access to the entire project infrastructure.




GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
RESEARCH TRAINING GROUPS				
 Berlin	Technische Universität Berlin	Urban Water Interfaces (RTG 2032)	2014	www.uwi.tu-berlin.de
 Hannover	Gottfried Wilhelm Leibniz Universität Hannover	Integrity and Collaboration in Dynamic Sensor Networks (RTG 2159)	2016	www.ife.uni-hannover.de/researchtraininggroup.html
 Jena	Friedrich-Schiller-Universität Jena	Alteration and Element Mobility at the Microbe-Mineral Interface (RTG 1257)	2005	www.gk-alteration.uni-jena.de
 Konstanz	Universität Konstanz	R3 - Responses to biotic and abiotic Changes, Resilience and Reversibility of Lake Ecosystems (RTG 2272)	2016	tba
 Potsdam	Universität Potsdam	Natural Hazards and Risks in a Changing World (NatRisk-Change) (RTG 2043)	2015	www.natriskchange.de
 Rostock	Universität Rostock	The German Baltic Sea Coast as Terrestrial-Marine Interface of Water and Matter Fluxes (Baltic TRANSCOAST) (RTG 2000)	2015	www.baltic-transcoast.uni-rostock.de
INTERNATIONAL RESEARCH TRAINING GROUPS				
 Bremen Hamilton (New Zealand)	Universität Bremen University of Waikato	INTERCOAST - Integrated Coastal Zone and Shelf-Sea Research (IRTG 1598)	2009	www.intercoast.uni-bremen.de
 Bayreuth Sendai (Japan)	Universität Bayreuth Tohoku University	Deep Earth Volatile Cycles (IRTG 2156)	2015	http://gepris.dfg.de/gepris/projekt/270542396
 Bremen Montréal (Canada)	Universität Bremen Université du Québec à Montréal	ArcTrain - Processes and Impacts of Climate Change in the North Atlantic Ocean and the Canadian Arctic (IRTG 1904)	2012	www.marum.de/ArcTrain.html



GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Potsdam Buenos Aires (Argentina) Jujuy (Argentina) La Plata (Argentina) Mendoza (Argentina) Salta (Argentina)	Universität Potsdam Universidad Austral Universidad de Buenos Aires Universidad Nacional de Jujuy Universidad Nacional de La Plata Universidad Nacional de Cuyo Universidad Nacional de Salta	Surface Processes, Tectonics and Georesources: The Andean Foreland Basin of Argentina (StRATEGy) (IRTG 2018)	2015	www.geo.uni-potsdam.de/irtg-strategy.html
 Stuttgart Tübingen Waterloo (Canada)	Universität Hohenheim Eberhard Karls Universität Tübingen University of Waterloo	Integrated Hydrosystem Modelling (IRTG 1829)	2011	www.geo.uni-tuebingen.de/forschung/international-research-training-group-integrated-hydrosystem-modelling.html




INTEGRATED RESEARCH TRAINING GROUPS IN CLUSTERS OF EXCELLENCE

 Bremen	Universität Bremen	Bremen International Graduate School for Marine Sciences (GLOMAR) (EXC 309, MARUM)	2007	www.marum.de/GLOMAR.html
 Hamburg	Universität Hamburg	School of Integrated Climate System Sciences (SICSS) (EXC 177, CliSAP)	2007	www.sicss.de
 Kiel	Christian-Albrechts-Universität zu Kiel	Integrated School of Ocean Sciences (ISOS) (EXC 80, The Future Ocean)	2006	www.futureocean.org/de/isos

INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES

 Cologne	Universität zu Köln	Integrated Research Training Group within: Our Way to Europe: Culture-Environment Interaction and Human Mobility in the Late Quaternary (CRC 806)	2009	http://sfb806irtg.uni-koeln.de
 Hannover	Gotfried Wilhelm Leibniz Universität Hannover	Integrated Research Training Group "geo-Q Research School" within: Relativistic Geodesy and Gravimetry with Quantum Sensors (geo-Q) (CRC 1128)	2014	www.geoq.uni-hannover.de

GRADUATE TRAINING

Location	Institution	Title	Funded Since	Contact
 Jena	Friedrich-Schiller-Universität Jena	Integrated Research Training Group "AquaDiva" within: AquaDiva: Understanding the Links between Surface and Subsurface Biogeo-sphere (CRC 1076)	2013	www.aquadiva.uni-jena.de/Graduate+school.html
INTEGRATED RESEARCH TRAINING GROUPS IN COLLABORATIVE RESEARCH CENTRES/TRANSREGIOS				
 Aachen Bonn Cologne Jülich	Rheinisch-Westfälische Technische Hochschule Aachen Rheinische Friedrich-Wilhelms-Universität Bonn Universität zu Köln Forschungszentrum Jülich	Graduate School within: Patterns in Soil-Vegetation-Atmosphere-Systems: Monitoring, Modelling and Data Assimilation (TRR 32)	2006	http://tr32new.uni-koeln.de/index.php/irtg/graduate-school
 Berlin Münster	Freie Universität Berlin Technische Universität Berlin Westfälische Wilhelms-Universität Münster	Integrated Research Training Group "Planetary Sciences" within: Late Accretion onto Terrestrial Planets (LATP) (TRR 170)	2015	www.trr170-lateaccretion.de/project/irtg



GRADUATE TRAINING

- AT NON-UNIVERSITY RESEARCH INSTITUTIONS -

Helmholtz Graduate Schools provide a roof under which a varied number of curricula in different fields, or across disciplines, can find a home. Helmholtz Graduate Schools constitute a valuable addition to the wide range of training programmes available within the Helmholtz Association. They offer optimal conditions for PhD students to work and enable them to create a network of contacts with fellow university researchers while also fostering the integration of participants into the research environment.

Leibniz Graduate Schools were established to foster the systematic promotion of junior researchers. Young researchers are given the opportunity to do their doctorates in an excellent, collaborative, cross-disciplinary research environment. To this end, Leibniz institutions cooperate closely with universities. As every Leibniz institution focuses on clearly defined, socially-relevant themes, doctoral candidates have a wealth of networking opportunities in a large, dedicated scientific community. The particular character of research at the institutions in the Leibniz Association, which includes fundamental, large-scale and application-oriented research, means doctoral candidates can conduct research from basic idea right through to application.

International Max Planck Research Schools (IMPRS) offer talented German and international junior scientists the opportunity to earn a doctorate under excellent research conditions. The research schools are established by one or several Max Planck Institutes. These IMPRS work in close cooperation with universities and other – sometimes international – research institutions. This provides an extraordinary framework for the graduate students to work in, and is a great advantage in interdisciplinary research projects, or in projects that require special equipment.

GRADUATE TRAINING

Location	Title	Contact
HELMHOLTZ GRADUATE SCHOOLS		
○ Bremerhaven	Helmholtz Graduate School for Polar and Marine Research (POLMAR)	http://polmar.awi.de
○ Bremerhaven	Helmholtz Research School on Earth System Science (ESSReS)	http://earth-system-science.org
○ Garmisch-Partenkirchen	Helmholtz Research School on Mechanisms and Interactions of Climate Change in Mountain Regions (MICMoR)	www.micmor.kit.edu
○ Karlsruhe	GRACE - GRADuate School for Climate and Environment	www.grace.kit.edu
○ Kiel	Helmholtz Research School Ocean System Science and Technology (HOSST)	www.geomar.de/studieren/phd/hosst/
○ Leipzig	Helmholtz Research School for Ecosystem Services under Changing Land-Use and Climate (ESCALATE)	www.ufz.de/escalate
○ Leipzig	Helmholtz Interdisciplinary GRADuate School for Environmental Research (HIGRADE)	www.ufz.de/higrade
○ Potsdam	Helmholtz Graduate Research School for Explorative Simulation of Earth Sciences (GeoSim)	www.geo-x.net/geosim
LEIBNIZ GRADUATE SCHOOLS		
○ Bremen	Leibniz Graduate School SUTAS (Sustainable Use of Tropical Aquatic Systems)	www.zmt-bremen.de/SUTAS.html
○ Dresden	Dresden Leibniz Graduate School (DLGS)	www.dlgs-dresden.de
○ Kühlungsborn	International Leibniz Graduate School for Gravity Waves and Turbulence in the Atmosphere and Ocean (ILWAO)	www.iap-kborn.de/1/research/projects/heimseiten/ilwao
○ Leipzig	Leipzig Graduate School on Clouds, Aerosols and Radiation (LGS-CAR)	www.lgs-car.tropos.de
○ Potsdam	Leibniz Graduate School: Agricultural Techniques: Potentials and Costs of Greenhouse Gas Mitigation (LandPaKT)	www.landpakt.atb-potsdam.de
INTERNATIONAL MAX PLANCK RESEARCH SCHOOLS (IMPRS)		
○ Bremen	IMPRS of Marine Microbiology	www.marmic.mpg.de/marmic
○ Göttingen	IMPRS for Solar System Science	www.mps.mpg.de/solarsystemschoool
○ Hamburg	IMPRS on Earth System Modelling	www.mpimet.mpg.de/phd-program/imprs-esm.html
○ Jena	IMPRS for Global Biogeochemical Cycles	www.imprs-gbgc.de
○ Marburg	IMPRS for Environmental, Cellular and Molecular Microbiology	www.imprs-microbiology.mpg.de

SOCIETIES AND ASSOCIATIONS

IN GERMANY

Deutsche Geophysikalische Gesellschaft (DGG): www.dgg-online.de (DE)
Deutsche Gesellschaft für Geowissenschaften (DGG): www.dgg.de (DE)
Deutsche Gesellschaft für Limnologie (DGL): www.dgl-ev.de (DE)
Deutsche Gesellschaft für Meeresforschung (DGM): www.dg-meeresforschung.de (DE)
Deutsche Gesellschaft für Polarforschung (DGP): www.dgp-ev.de (DE)
Deutsche Hydrographische Gesellschaft (DHG): www.dhyg.de (DE)
Deutsche Meteorologische Gesellschaft (DMG): www.dmg-ev.de (DE)
Geologische Vereinigung (GV): www.g-v.de
German Association for Water, Wastewater and Waste (DWA): www.dwa.de
German Crystallographic Society (DKG): <http://dgk-home.de> (DE)
German Geographical Society (DGfG): www.geography-in-germany.de
German Hydrological Society (DHG): www.dhydrog.de (DE)
German Mineralogical Society (DMG): www.dmg-home.de
German Professional Association of Geoscientists (BDG): www.geoberuf.de
German Quaternary Association (DEUQUA): www.deuqua.org
German Society for Photogrammetry, Remote Sensing and Geoinformation (DGPF): www.dgpf.de (DE)
German Soil Science Society (DBG): www.dbg.de
Paläontologische Gesellschaft: www.palges.de
Society for Geodesy, Geoinformation and Land Management (DVW): www.dvw.de
Water Science Alliance e.V.: www.watersciencealliance.de (DE)

OPEN POSITIONS

Research in Germany: www.research-in-germany.org/jobs
Fraunhofer Society: www.fraunhofer.de/en/jobs-career
Helmholtz Association: www.helmholtz.de/en/jobs_talent
Leibniz Society: www.leibniz-gemeinschaft.de/en/karriere
Max Planck Society: www.mpg.de/jobboard

RESEARCH INSTITUTIONS, PROJECTS, FUNDING, CONTACTS



The “Research in Germany” Portal: Information on research and funding opportunities, academic and research-related job portals, as well as advice on preparing a research stay or initiating a collaboration with German research organisations. www.research-in-germany.org



German Project Information System (GEPRIIS): Online database providing information about all current DFG-funded research projects and contact information for the Principal Investigators. <http://gepris.dfg.de>



The Research Explorer: Information on more than 19 000 institutes at German universities and non-university research institutions, searchable by geographic location, subject and other structural criteria. <http://research-explorer.dfg.de>



Website of the DFG: Further background information about DFG funding programmes, funding guidelines, and lists of currently DFG-funded activities. www.dfg.de



The German Rectors’ Conference (HRK) Research Map: The interactive HRK *Research Map* database provides information on the research priorities that are of strategic institutional importance for each university. www.hrk.de/home (go to → *Research Map*)



The Higher Education Compass: Information on Germany’s higher education institutions, the range of courses and programmes that they offer, their worldwide cooperation, and who to contact locally. www.hochschulkompass.de/en/higher-education-compass



NOTES



Contact

German Research Foundation (DFG)
DFG Head Office Germany
www.dfg.de
researchmarketing@dfg.de

DFG Deutsche
Forschungsgemeinschaft