

Deutschlands Forschungslandschaft und
Fördermöglichkeiten für wissenschaftliches Nachwuchs

Науковий ландшафт Німеччини та можливості
підтримки для аспірантів та молодих вчених

Germany's research landscape and funding
opportunities for early-career researchers

Research in
Germany



Land of Ideas

Dr Oksana Seumenicht

International Relations Manager

Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC), Berlin

www.mdc-berlin.de

Contact e-mail: scientists4ukraine@gmail.com

KYIV • Seminar, supported by the DAAD and German Embassy • 11 May 2016



Seminar Outline

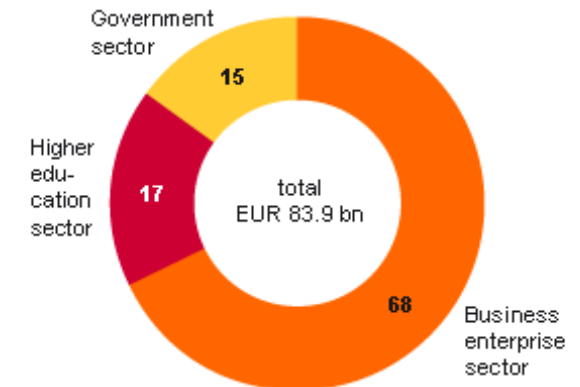
- General overview of the German research landscape
 - ✓ Funding
 - ✓ Universities
 - ✓ Non-university organisations
- Doing a PhD in Germany
 - ✓ Structured PhD programmes, sources of information and funding
- Research opportunities for post-docs
 - ✓ Some funding schemes
- The UKRAINE Network and how we can help
- Some tips on finding the host and preparing an application



Positive Research Funding Environment

- ✓ Gross domestic expenditure on R&D: **EUR 80 billion** (2013), ca **3% of GDP**
- ✓ Government **increased** its R&D budget over **60%** and education expenditure over **90%** between 2005 and 2013
- ✓ 605,000 staff in R&D, incl. 361,000 researchers

Research and development, 2014
Internal expenditure, by sector, %



© Statistisches Bundesamt, Wiesbaden 2016

https://www.bmbf.de/pub/Federal_Report_on_Research_and_Innovation_2014.pdf
<http://www.datenportal.bmbf.de/portal/en/index.html>



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Funding Organizations

- ✓ **Federal Ministry for Education and Research (BMBF):** core funding of institutes, targeted strategic initiatives, support of international collaboration
- ✓ **German Research Foundation (DFG):** national research funding agency (grants for projects and programmes)
- ✓ **German Academic Exchange Service (DAAD):** individual scholarships and programme grants to support internationalisation of German universities
- ✓ **Alexander von Humboldt Foundation:** individual scholarships & prizes (for PhD-level scientists), strong support of the alumni network
- ✓ **Foundations:** Volkswagen Stiftung, Robert Bosch Stiftung, Landesstiftung Baden-Württemberg, Bertelsmann-Stiftung, Fritz Thyssen Stiftung, BI Fonds, etc.



Bundesministerium
für Bildung
und Forschung

www.stiftungen.org/e

DFG



Alexander von Humboldt
Stiftung/Foundation

f-german-foundations.html

DAAD



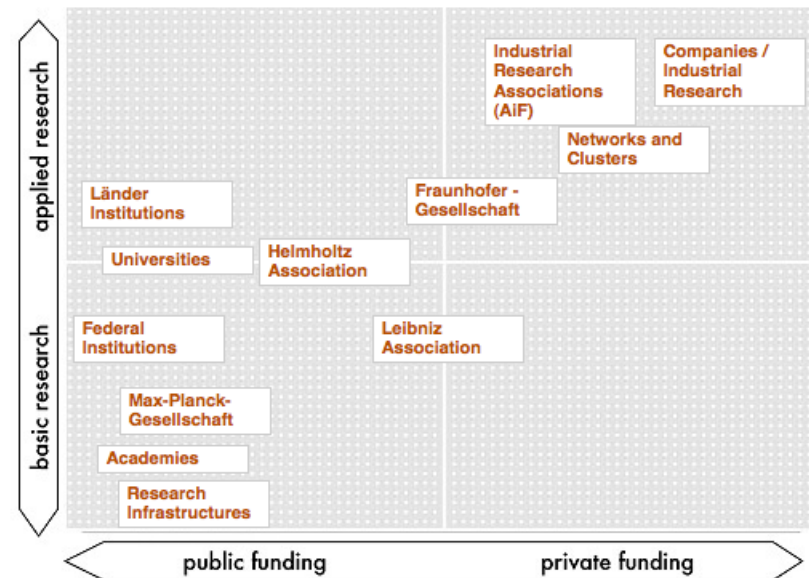
Bundesverband
Deutscher Stiftungen



Diverse Research Landscape

More than 1000 public & publicly-funded research institutions, incl.:

- ✓ 400 higher education institutions (HEI)
- ✓ > 250 institutes/ centres within **4 non-university research organizations**
- ✓ 40 federal research institutions (e.g. Robert Koch Institute)
- ✓ 130 state (*Länder*) research institutes/ centres





Higher Education Institutions

There are approximately **400** higher education institutions in Germany, including:

- ✓ **110 universities** (Universitäten) and
- ✓ **over 230 universities of applied sciences**
(Fachhochschulen/Hochschulen für angewandte Wissenschaften) (2015)
- ✓ **2.7 million** students, incl. 320,000 international students (**12%**); (2014/15)
- ✓ 662,000 staff in total, 370,000 academic staff (2013)

Core funding and legal framework is provided by the *Länder*

Excellence Initiative (since 2005) supported best concepts for the institutional strategies, clusters of excellence and graduate schools

<https://www.hrk.de/home/>

<http://www.hochschulkompass.de/en.html>

http://www.dfg.de/en/research_funding/programmes/excellence_initiative/





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German Universities

U15







TU9





Non-University Research Organisations

	Budget Billion €	Staff Thousands	Units Centres/ Institutes
The Helmholtz Association Fundamental research in six strategic programs (science & technology)	4	38	18
			
The Max Planck Society Scientist-driven fundamental research (science & humanities)	2,1	17	83
			 MAX-PLANCK-GESELLSCHAFT
The Leibniz Association Interdisciplinary research of supra-regional importance (science & humanities, incl. in museums & libraries)	1,6	18	89
			
The Fraunhofer-Gesellschaft Application-oriented research (science & humanities)	2	24	66
			

Status: 2015

<http://www.research-in-germany.org/en/research-landscape/research-organisations.html>



Navigating Germany's Research

The Research Explorer – the research directory of the DFG and of the DAAD – has been established in cooperation with the German Rectors' Conference (HRK). It contains over 23,000 institutes at German universities and non-university research institutions, **searchable by geographic location, subject and other structural criteria.**



Research in
Germany
●●●●●●●●
Land of Ideas

[About us](#) | [Newsletter](#) | [English](#)

Research Landscape	Jobs & Careers	Research Funding	Living in Germany	Campaigns & Activities	Infoservice
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<http://www.research-in-germany.org/en>

<http://www.berlin-sciences.com/en/health-and-life-sciences/>



The Berlin Science Portal



PhD in Germany

- Traditional “apprentice” model
 - ✓ Individual selection and mentoring by a thesis supervisor
 - ✓ Usually funded from the mentor’s core group funding or extramural grants
 - ✓ Starting date usually depends on when the funds become available
- Structured PhD Programmes (3-4 year)
 - ✓ Usually centralised marketing (1 or 2 deadlines pa) and selection is done by a committee
 - ✓ Often funding provided from a dedicated central stipend/ PhD positions pool
 - ✓ Many international programmes with English as language of instruction
 - ✓ Often have some structured curriculum, thesis committees, extra funds for conferences, etc.
 - ✓ Usually more international and have a stronger collegial atmosphere





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PhD in Germany: How to find a programme?

DAAD database for international programmes: 246 PhD programmes with English as the study-language:

[https://www.daad.de/deutschland/studienangebote/international-programs/en/?p=l&q=°ree\[\]=3&fos=0&lang\[\]=2&fee\[\]=0&sortBy=1&page=1&display=list](https://www.daad.de/deutschland/studienangebote/international-programs/en/?p=l&q=°ree[]=3&fos=0&lang[]=2&fee[]=0&sortBy=1&page=1&display=list)



Home / Information on Study and Research in Germany / International Programmes

International Programmes in Germany 2016
246 Programmes for your chosen criteria

Chosen criteria:



PhD in Germany: How to find a programme?

The German Rectors' Conference/ Hochschulrektorenkonferenz (HRK) search engine:

<http://www.hochschulkompass.de/en/doctoral-studies/search-for-doctoral-study-opportunities/advanced-search.html>

Doctoral studies in Germany – Advanced search

If you want to pursue a doctorate and already know that you want to write your dissertation in English or another language other than German, or want to search for doctorate opportunities that require only a bachelor's degree, then our advanced search will help you do so. The doctoral opportunities displayed are governed by the respective doctoral study regulations of the universities, which are evaluated by the German Rectors' Conference.

Area of studies: 263 Results »

Subject: ▼

Degree: ▼

▲ [Geographic criteria](#)



PhD in Germany: How to find a programme?

DFG-funded Research Training Groups: 45 graduate schools, 149 graduate programmes (as of 28 April, 2016)

http://www.dfg.de/en/research_funding/programmes/list/index.jsp?sort=titel_asc&prg=GSC

Current Graduate Schools

Last modified: April 28, 2016

Graduate Schools

Programme	<input type="text" value="Research Training Group"/>
Scientific discipline	<input type="text" value="All"/>
State	<input type="text" value="All States"/>

Current Graduate Schools Programme details

193 projects were found



PhD Programmes at Non-University Research Institutes

- Leibniz Graduate Schools and PhD Programmes (31):

<http://www.leibniz-gemeinschaft.de/en/careers/the-next-generation-of-researchers/leibniz-graduate-schools/overview-of-leibniz-graduate-schools/>



- International Max Planck Research Schools (IMPRS, 60):

Currently, there are

- ✓ 26 in the Chemistry, Physics and Technology
- ✓ 23 in the Biology and Medicine
- ✓ 11 in the Human and Social Sciences

<https://www.mpg.de/en/imprs>

Network of Max Planck PhD students: www.phdnet.mpg.de/cms/





Helmholtz Association's Research and Graduate Schools

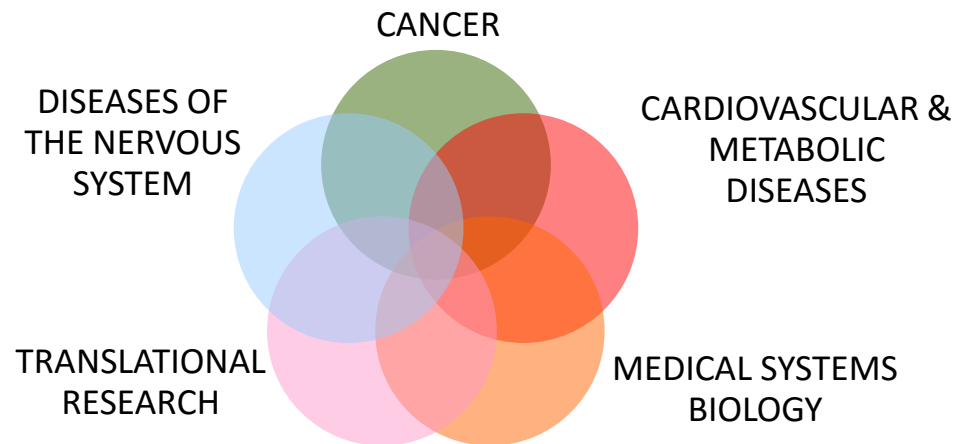
- **Strategic research to address grand challenges**
- **Six research areas:** Energy Earth & Environment Health Aeronautics, Space & Transport, Key Technologies, Structure of Matter
- Developing and operating **complex infrastructure & large-scale facilities**
 - ✓ Helmholtz Graduate Schools (13) & Helmholtz Research Schools (21):
https://www.helmholtz.de/en/jobs_talent/funding_programs/doctoral_students/helmholtz_research_schools/
https://www.helmholtz.de/en/jobs_talent/funding_programs/doctoral_students/helmholtz_graduate_schools/
 - ✓ DLR-DAAD Research Fellowships in the fields of Space, Aeronautics, Energy and Transportation Research:
<https://www.daad.de/deutschland/stipendium/datenbank/de/15370-dlr-daad-research-fellowships-in-the-fields-of-space-aeronautics-energy-and-transportation-research/>





Max Delbrück Center for Molecular Medicine (MDC) Berlin Buch, www.mdc-berlin.de

- 14th among the top 20 life science institutes worldwide in the field of molecular biology/ genetics (TR, 2010)
- ca EUR 100 million annual budget
- 64 research groups
- 1635 staff (incl. guests)





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PhD at the MDC

www.mdc-berlin.de/PhD



Application closing date: July 1

TransCard	SignGene, with Technion & Hebrew Univ., Israel	Medical Systems Biology, with NYU, USA	MyoGrad, with Univ. P. et M. Curie in Paris, France	MolNeuro
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350 PhD students, > 40% international



Funding for PhD students

DAAD

- Research Grants – Doctoral Programmes in Germany (for up to 3 years)
- Research Grants – 1-Year Grants

- Evonik Foundation Scholarships
- Foundation of the Berlin House of Representatives: Grant Programme
- Fritz Thyssen Foundation Stipends
- The Boehringer Ingelheim Fonds PhD fellowships



Post-doc Fellowships for Germany

- DAAD Research Grants – 1-Year Grants
- DAAD Short-Term Research Grants
- AvH Humboldt Research Fellowships for Post-doctoral Researchers
- AvH Georg Forster Research Fellowships (up to 2 years) and Fellowships for Experienced Researchers (6-18 months, can be split)
- Leibniz-DAAD Research Fellowships (for 1 year)
- Gerda Henkel Foundation Research Scholarships (Historical Humanities)
- TU Berlin: The International Post-Doc Initiative (IPODI) for female researchers
- Volkswagen Foundation 'Freigeist' Fellowships



Other Post-doc Fellowship Schemes

- EMBO post-doc fellowships:
 - ✓ for 2 years, for those with less than 2 years after a PhD
 - ✓ at least 1 first-author paper
 - ✓ 2 deadlines in February and August

<http://www.embo.org/funding-awards/fellowships/long-term-fellowships>
- HFSP post-doc fellowships:
 - ✓ for 3 years
 - ✓ deadline in August

<http://www.hfsp.org/funding/postdoctoral-fellowships>
- Short-Term Fellowships: e.g. EMBO, FEBS, Travelling Fellowships of the Company of Biologists; Boehringer Ingelheim Fonds Travel Grants; Stiftung Charité: BIH Short-term Fellowships



Working in Germany

- Studying is a full-time occupation, but students may find a part-time job on or off-campus in order to gain practical experience and to improve their financial situation
 - ✓ Up to 120 full days or 240 half days per year are allowed
- After graduating from a German university, you may stay on for another 1,5 years to search qualified employment
- Those successful in their search can have their residence permit extended



Links to Academic Job Ads

- **Academic jobs in Germany:**

- ✓ <https://www.academics.de/>
- ✓ http://www.euraxess.de/en/stellensuche_deutschland.php

- Jobs at the Helmholtz Association:

https://www.helmholtz.de/en/jobs_talent/job_vacancies/

- Jobs at the Max Planck Society: <https://www.mpg.de/jobboard>

- Jobs at Leibniz Institutes: <http://www.leibniz-gemeinschaft.de/nc/en/careers/jobs/>

- Jobs at Fraunhofer Institutes:

<http://www.fraunhofer.de/en/jobs-and-career.html>





Some Databases & Useful Resources

- <https://www.daad.de/deutschland/stipendium/datenbank/en/21148-finding-scholarships/>
- <http://scholarship-positions.com/>
- <http://www.scholarshipportal.com>
- <http://www.e-fellows.net/extranet/stipendien-datenbank>
- Berlin doctoral programmes: <http://www.doctoral-programs.de>
- Art of grantsmanship: <http://www.hfsp.org/funding/art-grantsmanship>
- Making the right moves. A practical guide to scientific management for post-docs and new faculty. Writing a Letter of Recommendation/ Guidance for writing letters of recommendation pertaining to scholarly work. HHMI.
www.hhmi.org/labmanagement
- Fellowship primer: <http://www.hfsp.org/funding/fellowship-resources>

Finding Scholarships

Here you can find information on various kinds of DAAD funding for foreign students, graduates and postdocs as well as on funding offered by other selected organisations.

Refine your selection

35 Scholarship options for your selection



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MAIN GOALS of the UKRAINE Network



FOSTERING

academic cooperation with Ukraine and its integration into the European Research Area



IMPROVING

knowledge about Ukraine abroad, its university and research landscape, and *vice versa*



SUPPORTING

career development of the Network's members and young academics in Ukraine



ESTABLISHING

of an international expert pool to support the reforms in science & HE system in Ukraine



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Contact

LinkedIn Group „The UKRAINE Network“:

<https://www.linkedin.com/groups/8473594>

Newsletter subscription: scientists4ukraine@gmail.com



Professor Olga Garaschuk

<http://www.physiologie2.uni-tuebingen.de/>

Head of the Chair in Physiology II

Tübingen University

- The graduate program in Neural & Behavioural Sciences (International Max Planck Research School)
- The graduate program in Cellular & Molecular Neuroscience
- MD/PhD Program in Experimental Medicine



Precarpathian National University (PNU) in collaboration with Institute of Physiology in the University of Tübingen and UKRAINE Network, supported by a DAAD grant, organised a **Summer workshop** “**Perspectives for young scientists in life sciences: mastering global challenges of the modern society**”:

<http://biochem.pu.if.ua/en>



Professor Yarema Okhrin

yarema.okhrin@wiwi.uni-augsburg.de

Since 2009 Full Professor of Statistics
Faculty of Business and Economics
University of Augsburg, Germany

Open position for a research assistant:

<http://www.wiwi.uni-augsburg.de/bwl/okhrin/aktuelles/Stellenausschreibung.html>



Lviv Computer Science Summer School is a brand new educational initiative from the Computer Science Program of the Ukrainian Catholic University.

<http://cs.ucu.edu.ua/summerschool/>



Professor Sergei Gorlatch

gorlatch@uni-muenster.de

Since 2003: Professor for parallel and distributed systems at
University of Münster

Interested to support applicants for fellowships, e.g. DAAD/ AvH,
who can demonstrate:

- ✓ Interest in research in Computer Science, with focus on Algorithms and software for parallel and distributed systems, networking, internet applications; other topics may be discussed
- ✓ Good command of English, especially in writing
- ✓ For post-docs – good publications, preferably in English
- ✓ For PhD students – good grades in study, good *Diplom*/ Master thesis



<https://www.uni-muenster.de/PVS/mitarbeiter/gorlatch.html>



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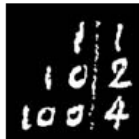
Nataliya Butych

nataliya.butych@zuv.uni-hannover.de

Programmkoordination Mittel- und Osteuropa
DAAD Programme „Strategische Partnerschaften“,
„Ostpartnerschaften“, „Go-East“
Hochschulbüro für Internationales
Leibniz Universität Hannover

<http://www.uni-hannover.de/en/aktuell/stellenangebote/jobboerse/>

Deadline: May 31



Leibniz
Universität
Hannover

The International Research Training Group IRTG 1627/2 – ViVaCE "Virtual Materials and their Validation": German-French School of Computational Engineering at Leibniz Universität Hannover invites applications for

10 PhD Positions in Virtual Testing of Materials and Structures (Salary Scale 13 TV-L, 100%)



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