Webinar: The German Research Landscape & Funding Opportunities
Today’s Presenters

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Today’s Agenda

• The German Research Landscape
• DFG Funding Opportunities
• AvH Funding Opportunities
• DAAD Funding Opportunities
• Q&A
FAQs

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• All lines are muted – please submit questions by typing.

• Functions:
  (a) Grab tab (arrow = hide panel, window = full screen)
  (b) Audio pane*
  (c) Attendee list (hidden)
  (d) Questions pane
  (type question & click send)
  (e) Chat

*Audio trouble? Switch between Use Mic & Speakers and use Telephone. Check audio settings on your computer.
Facts I Structures I Financing
Research in Germany
Facts and figures 2014

Almost 1,000 publicly funded research institutions

Research expenditures: 84 bn euros = 2.88% GDP

604,000 people in the R&D sector

Bilateral, European and multilateral cooperation with more than 151 countries
Research expenditures

+ 50% for R&D in Germany

Total research expenditures in Germany (in bn euros)
Source: Federal Statistical Office
Research expenditures by sector

Research expenditures by sector in 2014 (%)

Source: Federal Statistical Office
Pillars of the German research sector

Universities (HEIs)  Non-university research institutes  Industrial research

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Participants

- Universities
- Helmholtz Association
- Fraunhofer-Gesellschaft
- Max Planck Society
- Academies
- Research Infrastructures
- Länder Institutions
- Federal Institutions
- Leibniz Association
- Industrial Research Associations (AiF)
- Networks and Clusters
- Companies/Industrial Research
Universities

- Approx. 400 HEIs – 148 authorised to confer doctorates
- Almost 26,000 international doctoral candidates
- Principle of uniting learning, instruction and research
- Excellence Initiative = 4.6 bn euros for cutting-edge research
Non-university research (I)
The Big Four

<table>
<thead>
<tr>
<th>Institution</th>
<th>Institutes</th>
<th>Budget</th>
<th>Researchers</th>
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</thead>
<tbody>
<tr>
<td>Max Planck Society</td>
<td>83 institutes</td>
<td>2.2 bn euros</td>
<td>13,300</td>
</tr>
<tr>
<td>Helmholtz Association</td>
<td>18 research centres</td>
<td>4.24 bn euros</td>
<td>14,700</td>
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<tr>
<td>Fraunhofer-Gesellschaft</td>
<td>67 institutes</td>
<td>2.1 bn euros</td>
<td>24,000 (staff in total)</td>
</tr>
<tr>
<td>Leibnitz Association</td>
<td>89 institutes</td>
<td>1.73 bn euros</td>
<td>9,300</td>
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Research for the future

- Basic research in the natural sciences, life sciences, social sciences and the humanities
- Innovative research fields which are especially demanding in terms of funding or time requirements
- Person-centered research organisation
- 18 Nobel laureates
Theoria cum praxi
Science for the benefit and good of humanity

- Natural, engineering and environmental sciences, economics, spatial and social sciences and humanities
- Knowledge transfer to policy-makers, academia, business and the public
- Scientific infrastructure, research-based services
- Archives, museums, national libraries
Shaping the future with sustainable research

- Energy, earth and environment, health, key technologies, structure of matter, aeronautics, space and transport
- Research infrastructures
- Basic research with a focus on potential applications
- Applied research
Research dedicated to the future

- Integration of scientific findings into useful innovations for industry and society
- Health, security, communication, mobility, energy and environment
- Contract research for industry and government (70%)
Industrial research

- **Applied research**
  - Länder Institutions
  - Universities
  - Federal Institutions
  - Max Planck Society
  - Academies

- **Basic research**
  - Helmholtz Association
  - Fraunhofer-Gesellschaft
  - Leibniz Association
  - Research Infrastructures

- **Industrial Research Associations (AiF)**
- **Companies/Industrial Research**
- **Networks and Clusters**

- **Public funding**
- **Private funding**
Industrial research

- 66% of all research funding in Germany comes from business and industry
- Innovation-driving sectors: pharmaceuticals, electronics, automotive engineering, mechanical engineering
- Technology transfer – Cluster formation, networks
Expenditures for innovations in % of turnover 2014

Source: Federal Statistical Office
10 German corporations are among the top 20 European innovation drivers
Current developments in science and research
Federal and “Länder” govts. = additional funding for needs-based study programmes:

- 2011-2015: Funding for 624,000 additional students
- 22% indirect costs for research projects
- Funding to improve the quality of Teaching
Excellence Initiative
Federal- and state-funded research programme

- Duration: 2006-2017
- Total funding volume: 4.6 bn euros
- Focus: university research activities
- Cooperation with regional, national and international partners
Funding awarded in the second programme phase:
99 projects at 44 universities
Pact for Research and Innovation

- Non-university research institutes and university research projects
- 2016-2020 five percent funding increase to institutions annually
- Goals: identification of future-oriented research fields, promotion of junior researchers, cross-institutional networking, internationalisation, knowledge and technology transfer, partnerships with industry
The German Research Foundation
DFG – Deutsche Forschungsgemeinschaft
The DFG
– Who We Are and What We Do

Who we are:
– Central public funding organization for basic research in Germany
– A self-governing body of science and research
– Member organization (universities, academies, research organizations)
– The budget in 2016: €3 billion in direct research funding, provided primarily by the federal government and the 16 German Länder
The DFG
– Who We Are and What We Do

What we do:

- serve **all branches of science and the humanities** by funding research projects and facilitating cooperation among researchers
- support the **education and advancement** of young scientific researchers
- promote **equality** between men and women
- advise **parliaments and public authorities** on scientific matters
- foster **relations between research and the private sector** and between **scientists and academics at home and abroad**
Graduate schools and Research Training Groups

❖ In Brief
Candidates earn a PhD as part of a structured doctoral programme

❖ Who?
PhD students
Postdocs / Junior researchers

❖ Duration?
3 years of funding for PhD, otherwise dependent on the position

❖ Value?
Work contract or scholarship

www.dfg.de/en/excellence-initiative/gsc
Support for early career researchers within Clusters of Excellence and Collaborative Research Centers

In Brief
Structured doctoral training or work on a research project; option of taking on project leadership or junior professorship within a Cluster of Excellence

Who?
PhD students
Postdocs / Junior researchers

Duration?
3 years of PhD funding, Postdoc positions

Value?
Work contract or fellowship

www.dfg.de/en/excellence-initiative/exc
Research grants

In Brief
Research projects with clearly defined topics and durations; possibility of applying for different funding modules

Who?
Postdocs / Junior researchers and senior researchers (at German research institutions)

Duration?
Up to 3 years

Value?
Funding, incl. own position (where applicable)

www.dfg.de/research_grants
Emmy Noether Programme

In Brief
Lead a junior research group, qualifying for supervisory positions or a university teaching career

Who?
Postdocs / Junior researchers

Duration?
5 years, max. 6 years

Value?
Funding: staff and consumables of a junior research group, incl. own position

www.dfg.de/emmy_noether/en
Mercator Fellows are supposed to

- Strengthen research (and teaching) in Germany
- Contribute to the objective of the research project
- Support early-career scientists

This module is available within the Individual Research Grant Program and for coordinated programs.

Researchers can apply (through the German host institution) for funding for a research stay of 3 to 12 months (may be divided into 3-month blocks).
Initiation of International Cooperation

Objective
To support the initiation of international collaboration with the modules „Bilateral Workshops“, „Trips Abroad“ and „Guest Visits“

Type and Extent of Funding
The modules can be combined
– Trips abroad of up to three months or research stays at partner institutions. Researchers from doctoral candidates to professors may take advantage of these
– Joint workshops

Funding is available for a maximum of 1 year. The program relies on matching funds. Funding is applied for by the German partner.
Thank you!

Dr. Max Voegler

(DFG North America Office)
The Alexander von Humboldt Foundation:

Research Fellowships and Awards
The Alexander von Humboldt Foundation

- Supports excellent individual researchers and other professionals from abroad and from Germany
- No quotas for countries or disciplines; selection based solely on applicant’s academic record
- Equal opportunity for female researchers
- Up to 700 fellowships and awards granted annually
- Free choice of academic host/collaborative partner in Germany; independent scientific/scholarly research, not stipulated by AvH
- “Exzellenz verbindet”—be part of a worldwide network. Alumni network of over 26,000, including 52 Nobel laureates
The Humboldt Foundation’s funding

Budget for 2015: approx. €114.2 million
Financed by federal funds and the European Union: approx. 96%

AA: Federal Foreign Office
BMBF: Federal Ministry of Education and Research
BMZ: Federal Ministry for Economic Cooperation and Development
BMUB: Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety
## Key sponsorship programs at a glance

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<th>Academics from abroad</th>
<th>Academics from Germany</th>
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<tr>
<td></td>
<td>● Humboldt Research Fellowship</td>
<td>● Feodor Lynen Research Fellowship</td>
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<td></td>
<td>● Georg Forster Research Fellowship</td>
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<tr>
<td><strong>Postdoctoral researchers</strong> (up to 4 years after completion of doctorate)</td>
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<td></td>
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<tr>
<td><strong>Junior research group leaders</strong> (up to 6 years after completion of doctorate)</td>
<td>● Sofja Kovalevskaja Award</td>
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<tr>
<td><strong>Experienced researchers</strong> (up to 12 years after completion of doctorate)</td>
<td>● Humboldt Research Fellowship</td>
<td>● Feodor Lynen Research Fellowship</td>
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<td></td>
<td>● Georg Forster Research Fellowship</td>
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<td></td>
<td>● Friedrich Wilhelm Bessel Research Award</td>
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<td></td>
<td>● Anneliese Maier Research Award</td>
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<td></td>
<td>● Max Planck Research Award</td>
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<td></td>
<td>● Alexander von Humboldt Professorship</td>
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<tr>
<td><strong>Internationally renowned academicians</strong></td>
<td>● Humboldt Research Award</td>
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<td>● Alexander von Humboldt Professorship</td>
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Research fellowships for research stay in Germany

Humboldt Research Fellowship / Georg Forster Research Fellowship

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<th></th>
<th>Postdoctoral researchers</th>
<th>Experienced researchers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Duration of sponsorship</strong></td>
<td>6 to 24 months</td>
<td>6 to 18 months, may be divided up into 3 stays</td>
</tr>
<tr>
<td><strong>Application period</strong></td>
<td>applications at any time, doctorates completed less than 4 years ago</td>
<td>applications at any time, doctorates completed less than 12 years ago</td>
</tr>
<tr>
<td><strong>Fellowship amount</strong></td>
<td>€2,650 per month (plus additional benefits)</td>
<td>€3,150 per month (plus additional benefits)</td>
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</table>
**Application procedure & requirements**

- Applications at any time to the foundation
- Decision by independent selection committee
- **Allow 4-7 months for application procedure**

<table>
<thead>
<tr>
<th>Postdoctoral researchers</th>
<th>Experienced researchers</th>
</tr>
</thead>
<tbody>
<tr>
<td>• above average doctorate</td>
<td>• independent academic activity, e.g. as an assistant professor</td>
</tr>
<tr>
<td>• academic publications</td>
<td>• comprehensive list of academic publications with own, clearly defined academic profile</td>
</tr>
<tr>
<td>• agreement by academic host</td>
<td>• agreement by academic host</td>
</tr>
<tr>
<td>• independent research proposal</td>
<td>• independent research proposal</td>
</tr>
<tr>
<td>• knowledge of German and/or English</td>
<td>• knowledge of German and/or English</td>
</tr>
</tbody>
</table>
Benefits Provided:

- fellowship
- travel lump sum
- language courses
- benefits for families
- allowance for research costs for the host institute
- intensive and individual mentoring in Germany and abroad by personal contacts at the Foundation
- study tour, network meeting, annual meeting
- return fellowships for specific regions
Finding a host in Germany

through the Humboldt Foundation’s Network Online
● Network Online can be used to locate Humboldtians’ host institutes
● searches can be filtered by subject area, location or keyword
www.humboldt-foundation.de/web/netzwerk-recherche.html

on the EURAXESS Germany website
www.euraxess.de/en/in_karrieren_wissenschaft.php

with the help of the Research Explorer from DAAD and DFG
● contains more than 19,000 institutes at German universities and non-university research institutions
● allows searches based on geographical, field-related and structural criteria
www.research-explorer.de

ask colleagues at your institute who have contacts in Germany (possibly Humboldtians)
Research awards

Sofja Kovalevskaja Award
- for top level junior academics from abroad
- up to €1.65 million for a period of 5 years
- to establish their own junior research group in Germany
- joint application by the applicant and the host institution

Humboldt Research Award (by nomination)
- for internationally eminent academics from abroad
- €60,000, research stay in Germany

Friedrich Wilhelm Bessel Research Award (by nomination)
- for experienced, internationally-respected academics from abroad up to 18 years after completion of doctorate
- up to €45,000, research stay in Germany
Research award in the humanities & social sciences

Anneliese Maier Research Award

collaboration award to promote the internationalization of the humanities and social sciences in Germany

- for outstanding researchers from abroad from the fields of the humanities and social sciences
- €250,000 EUR for a period of up to 5 years
- to finance research collaboration with specialist colleagues in Germany
- nomination
Research Awards

Alexander von Humboldt Professorship

- International Award for Research in Germany for leading academics of all disciplines from abroad
- 3.5 or 5 million euros for 5 years, up to 10 award winners p.a.
- nominations by German universities or joint applications by universities and non-university research institutions
- requirement: strategic plan by the university to integrate the award winner into long-term research and development
For young professionals: the German Chancellor Fellowship
for outstanding prospective leaders from Brazil, China, India, the Russian Federation and the USA

- from a broad range of areas such as politics and public policy, law, media, business, the non-governmental sector, and the arts
- with an independent project in Germany that has been agreed with the host.
- intermediaries between their home countries and Germany

APPLICATION DEADLINE: September 15, 2016
For young professionals: the German Chancellor Fellowship

Application requirements

- Bachelor's or equivalent academic degree
- Leadership potential

Benefits provided

- 12-month fellowship in Germany, extension of up to 3 months possible
- Language course, introductory seminar, study trip, reception at the Federal Chancellery
- Travel lump sum, family allowances
Thank you for your attention!

Contact: Cathleen Fisher
         cathleen.fisher@americanfriends-of-avh.org

E-mail: info@avh.de

www.humboldt-foundation.de
German Academic Exchange Service

Peter Kerrigan
(Deputy Director, DAAD Office New York, Marketing Director
DAAD North America)
German Academic Exchange Service (DAAD)

is the largest funding organization in the world supporting international exchange of students and scholars

DAAD provides
• Information and counseling about studying & research in Germany
• Scholarships and grants
Research Grants

For PhD candidates, recent PhDs or for individuals wishing to earn a doctoral degree in Germany

- 1 to 10 months with the possibility of an extension
- Must have a well-defined research project
- Invitation by host institution essential

Terms of Award:
€1,000/month plus insurance and travel stipend

Deadlines: November 4 & May 15
Bilateral Exchange of Academics

For researchers outside of Germany who hold a doctorate

- 2 weeks to 3 months

**Terms of Award:**
Cost of stay are paid by DAAD, travel expenses paid by host institution

**Deadlines:** Vary from country to country
Study Scholarship

For a full master's degree program at a German university or a year of independent study

Terms of Award:
€ 750/month, plus insurance, travel stipend

Deadline: November 4
Re-invitation Program for Former Scholarship Holders

For DAAD alumni with a research or study stay in Germany for at least 6 months

- 1 to 3 months
- Must have a well-defined research project
- Invitation by host institution essential

Terms of Award:
€2,000 - €2,150/month plus insurance and travel stipend

Deadlines: Vary from country to country
RISE Germany
(Research Internship in Science and Engineering)
For Undergraduates

- Summer internship (2 to 3 months) in the fields of biology, chemistry, physics, earth sciences and engineering
- RISE interns are matched with doctoral students at a German university or research institute
- The working language will be English

Terms of Award: €650/month, plus insurance, travel stipend

Deadline: January 15
RISE Professional
(Research Internship in Science and Engineering)
For Master’s and PhD Students

- Summer internship (2 to 3 months) in the fields of biology, chemistry, physics, earth sciences and engineering
- RISE interns are matched with a company in Germany
- The working language is usually English

Terms of Award: €750+/month, plus insurance, travel stipend

Deadline: January 31
RISE Worldwide
(Research Internship in Science and Engineering)
To host a German student in your lab

- Summer internship (2 to 3 months) in the fields of biology, chemistry, physics, earth sciences and engineering
- German RISE interns are matched with doctoral students, universities or research institutes around the world
- The working language will be English

Deadline: November/December
Resources

- www.research-in-germany.de
- www.dfg.de
- www.humboldt-foundation.de
- www.daad.org
- www.daad.de
Resources


Research Careers in Germany – A guide for international postdocs and experienced researchers (2016, 40 pages)

This brochure outlines the career opportunities Germany offers international postdocs and experienced researchers. It also contains some practical advice about visas, insurance and living in Germany.

Download (PDF, 3.9 MB)

Funding your research in Germany (2015, 72 pages)

A selection of funding programmes for German and foreign academics run by the most important research funding institutions. Target group: international students, graduates, post-docs and academics interested in a research stay in Germany.

Download (PDF, 6.4 MB)

The German doctorate – A guide for doctoral candidates (2015, 40 pages)

This booklet for (prospective) international doctoral students shows the different options for doing a doctorate in Germany. It explains the formal requirements, gives some practical advice on finding the right supervisor or doctoral programme. It also presents sponsoring and funding options.

Download (PDF, 9.4 MB)

FAQs – Preparing a successful research stay in Germany (2012, 47 pages)

FAQ Flyer with 14 questions and answers on preparing a research stay in Germany. Target group: International students, graduates, junior and senior scientists interested in research in German.

Download (PDF, 3.2 MB)

Subject-specific Brochures
GEPRIS (online database on current DFG-funded projects)

GEPRIS (German Project Information System) is an online database made available by the DFG to provide information on current DFG-funded research projects. Please note that to date, project information is available mainly in the German language.

www.gepris.dfg.de/en
Q&A
Thank you for joining us today!

Max Vögler
Cathleen Fisher
Peter Kerrigan
Hanni Geist