

🗱 🐡 🧩 The German Research Landscape

Research in Germany: Organisations and Funding









DAAD worldwide: Information centres and regional offices



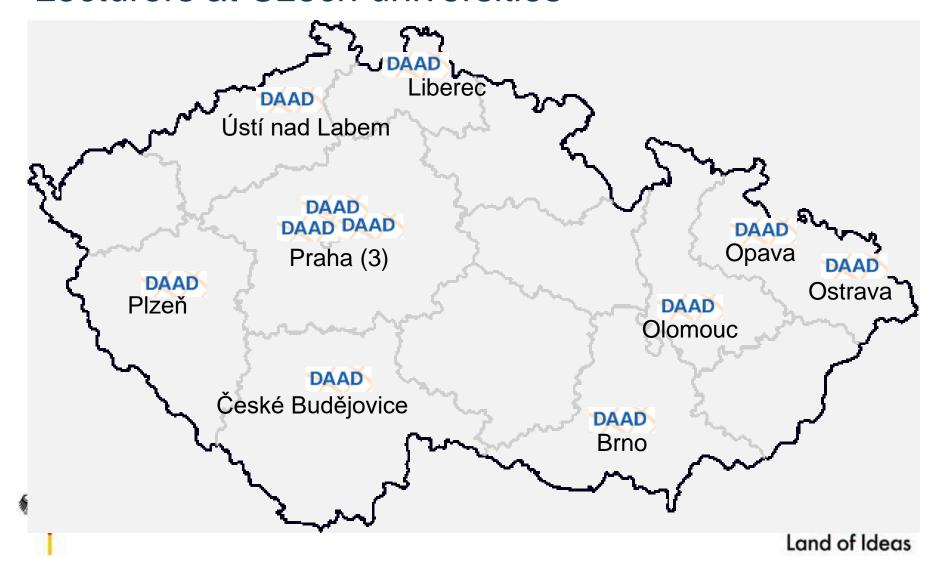








DAAD in the Czech republic: Lecturers at Czech universities





- The German research landscape:
 - Facts and figures
 - Research institutions
- Funding opportunities:
 - Funding organisations
 - Funding for PhD. students
- How to apply for a DAAD scholarship
- Further Information









Facts and figures 2014



Almost 1,000 publicly funded research institutions



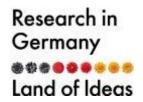
Research expenditures: 84 bn euros = 2.89% GDP



604,000 people in the R&D sector

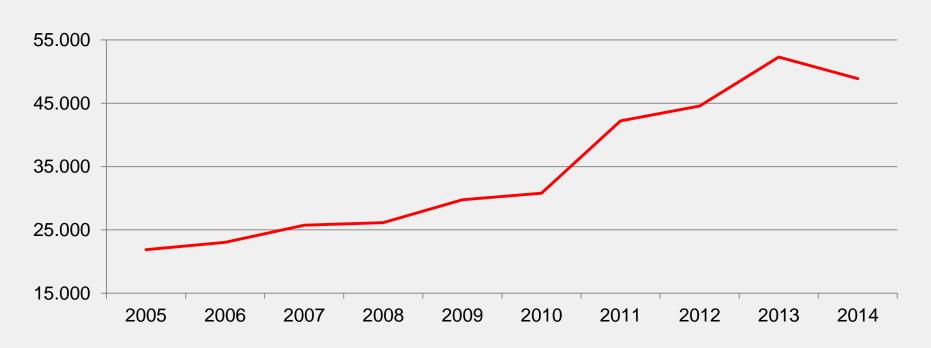


34 351 bilateral, European and multilateral cooperations with more than 155 countries





International researchers



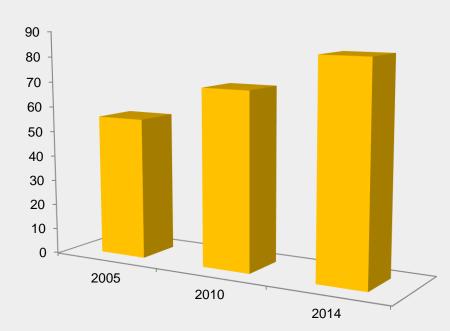
Number of international researchers in Germany

Source: Wissenschaft Weltoffen



Research expenditures

+ 50% for R&D in Germany



Total research expenditures in Germany (in bn euros)

Source: Federal Statistical Office

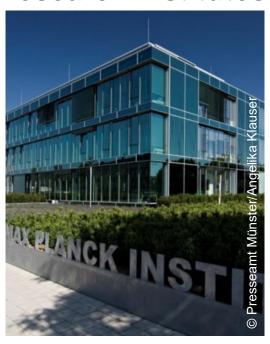


Pillars of the German research sector

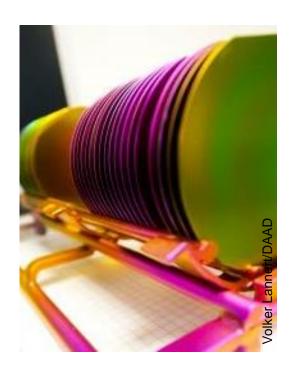
Universities (HEIs)



Non-university research institutes

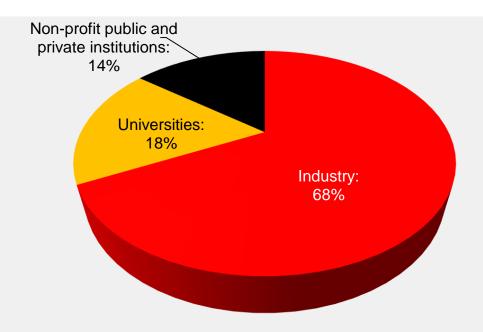


Industrial research





Research expenditures by sector

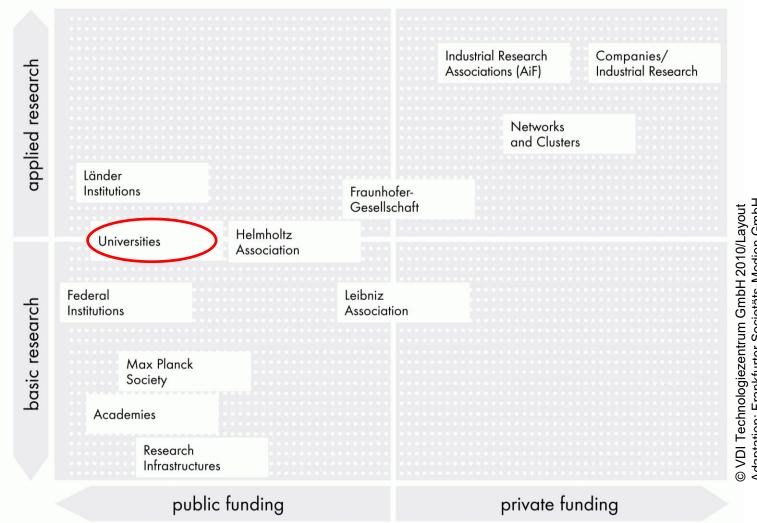


Research expenditures by sector in 2014 (%)

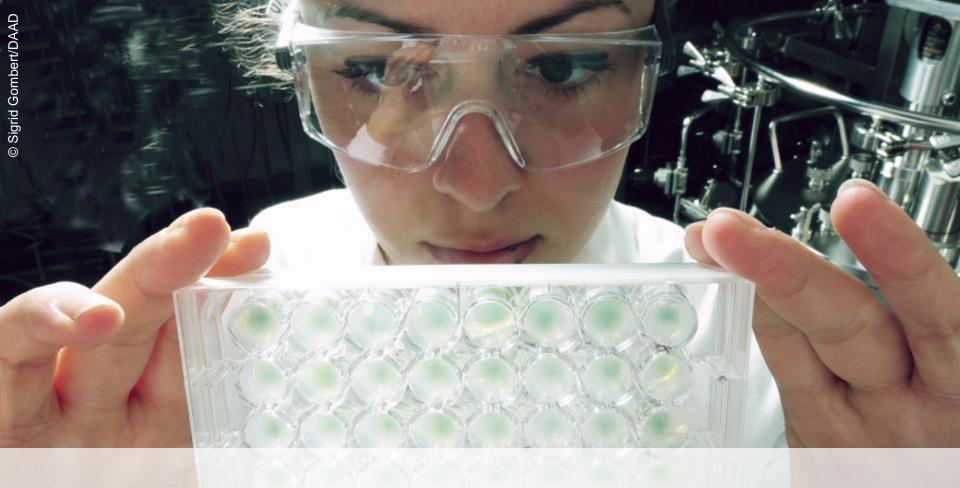
Source: Federal Statistical Office



Participants



Adaptation: Frankfurter Societäts-Medien GmbH



Diversity | Excellence | Investments | Research institutions



- Approx. 400 HEIs 148
 authorised to confer doctorates
- Almost 29,000 international doctoral candidates
- Principle of uniting learning, instruction and research
- Excellence Initiative = 4.6 bn euros for cutting-edge research





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



Research in Germany



Excellence Initiative

Funding structures

Graduate schools

Structured PhD programmes



Excellence clusters

Internationally visible beacons of research



Future concepts

Universities among the best-ranked internationally





Excellence initiative

Future concepts

























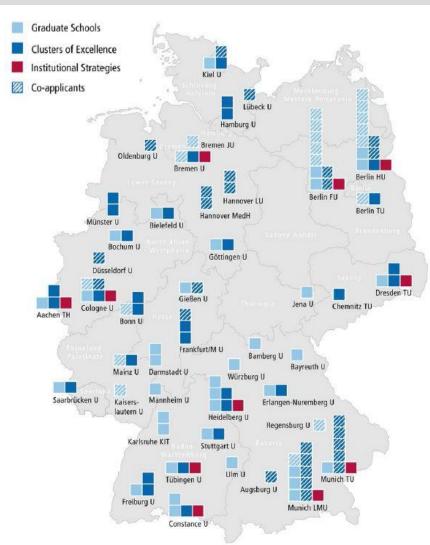




Excellence Initiative

Funding awarded in the second programme phase:

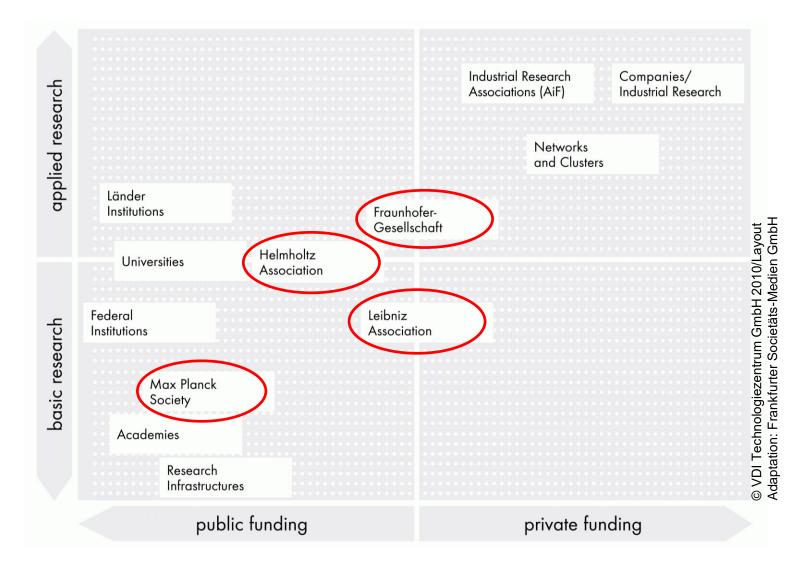
99 projects at 44 universities



(Quelle: DFG)



Non-university research (I)



******* The Big Four

Institution	Institutes	Budget	Researchers
Max Planck Society	83 institutes	2.2 bn euros	13,300
Helmholtz Association	18 research centres	4.24 bn euros	38,200 (staff in total)
Fraunhofer- Gesellschaft	67 institutes	2.1 bn euros	24,000 (staff in total)
Leibniz Association	89 institutes	1.73 bn euros	9,300

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Research in Germany



Max Planck Society



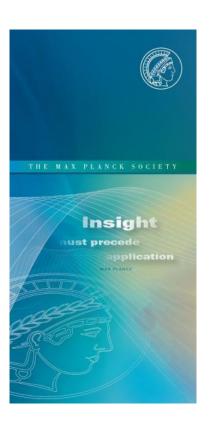




Research for the future



- 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





Leibniz Association







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 policymakers, academia, business and the public
- Scientific infrastructure, research-based services
- Archives, museums, national libraries

Research in Germany



Helmholtz Association



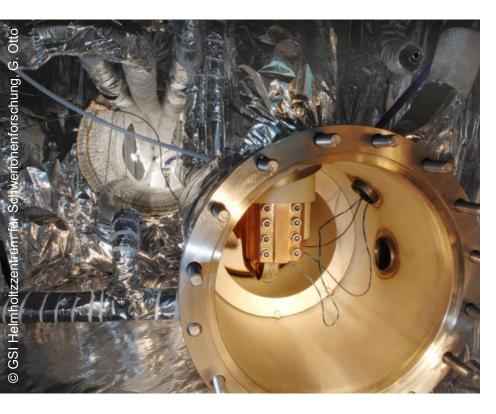




Shaping the future

HELMHOLTZ | ASSOCIATION

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





Fraunhofer-Gesellschaft







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



Research in Germany



- 68% 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



Research in Germany



Germany – Driving innovation

10 German corporations are among the top 20 European innovation drivers

SIEMENS





















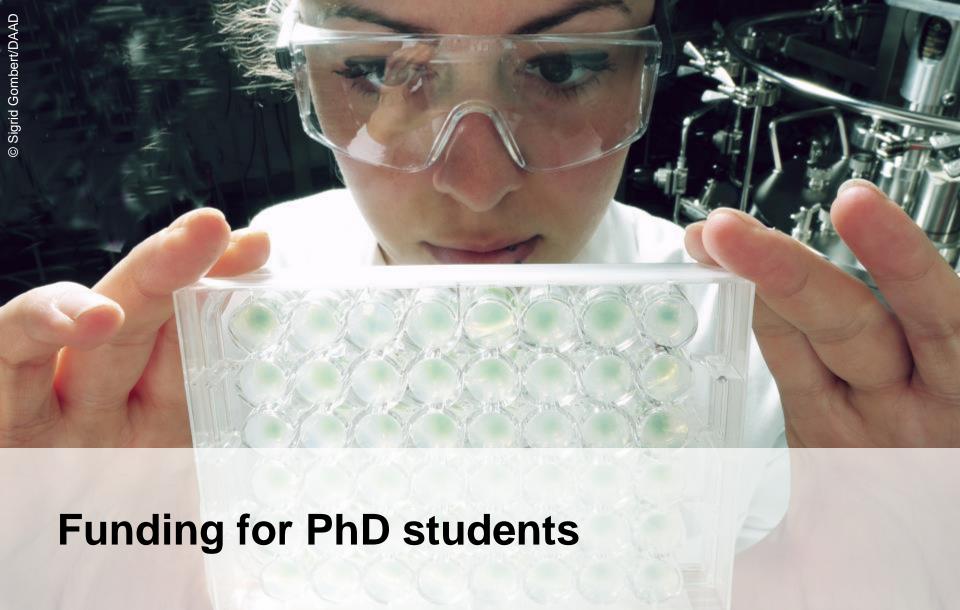


*** Funding opportunities in Germany





Research in Germany Land of Ideas





Paths to a PhD

Individual vs. structured PhD

Individual PhD

- Individual research under supervision of supervisor
- Optional courses or other forms of teaching / learning
- Mostly informal admission and marginal formalisation

Structured PhD

- Guidance by a team of supervisors / supervising committee
- Mandatory, fixed supporting curriculum (interdisciplinary)
- Defined application process
- Offered by research training groups / graduate schools

Research in Germany



Individual vs. structured PhD model

	TRADITIONAL APPROACH	STRUCTURED PROGRAMME
Selecting a research project	I would like to choose my own doctoral subject. I would like to study for my doctorate with a specific researcher.	l prefer thematic integration in a doctoral or research programme.
Organisation	I enjoy working independently and taking responsibility for my work. I would like to plan how I use my time myself. I would like to primarily concentrate on my research topic. I will attend selected subject seminars, if necessary.	I would like to regularly exchange ideas with colleagues. I would prefer to be integrated in a specific project or have a fixed curriculum. I would like my doctoral study to have a definite timeframe. I would like to receive support with articles, lectures or participation in conferences. I would like to deepen my subject knowledge and key skills in seminars.
Supervision	I would prefer in-depth discussions with one supervisor. I want to find a supervisor according to my own criteria.	I would like to have several contact partners. I would like to receive support with official formalities such as registration and a work permit.



Research in Germany Land of Ideas



- No tuition fees
- Living costs: approx.
 800 € (20.000 CZK) per month
- Can be self- or parentfinanced (external funding)
- Financed by the German supervisor or host institution
- Individual funding: research associate contracts (part-time)
- Apply for a scholarship





Funding for PhD students

Graduate and research schools





*** Funding for PhD students

FUNDING PROGRAMME	DURATION		TYPE OF FUNDING		TYPE OF DOCTORATE	
	Research stay (up to 2 years)	Complete doctorate	Grant/ scholarship	Work contract*	Individual doctoral project	Structured doc- toral programme
DLR-DAAD Research Fellowships						
Graduate Schools (DFG)						
Green Talents (BMBF)	-		-			
Indiv. Doctoral Projects at Fraunhofer Institutes						
Indiv. Doctoral Projects at Helmholtz Centres						
Indiv. Doctoral Projects at Leibniz Institutes						
Indiv. Doctoral Projects at Max Planck Institutes						
Internat. Helmholtz Res. Schools & Grad. Schools						
International Max Planck Research Schools						•
Internat. Visiting Researchers at Max Planck Inst.				• • • •		
Leibniz Graduate Schools and ScienceCampi		•				
MSC Innovative Training Networks						•
Re-invitation Programme (DAAD)				• • •		
Res. Grants - Bi-nationally Superv. Doct. Degrees (DAAD)				• • •		
Res. Grants - Doctoral Programmes (DAAD)						
Res. Grants - One-Year and Short-Term (DAAD)				• • •		
Research Training Groups (DFG)						
Support Early Career Res. in Clusters of Exc. (DFG)						
Support Early Career Res. in Collab. Res. Centres (DFG)						

^{*}generally includes own salary and expenses for staff and consumables



Funding organizations

- DAAD German Academic Exchange Service DAAD
- DFG German Research Society
- Alexander von Humboldt Foundation
- BMBF Federal Ministery of Education and Research



DEG













- EU-Programmes
- ****
- Others (BayHost, Bavarian Czech Academic Agency)









🌺 🌞 DAAD Scholarschip programmes



Deutscher Akademischer Austausch Dienst Německá akademická výměnná služba



Research grants – One-year and short-term grants

In Brief
Research project at a state-run or

state-recognised university or non-

university research institute in

Germany

Who?
PhD students

Postdocs / Junior researchers

Duration? One-year grants: 7–10 months

Short-term grants: 1-6 months

Value? 750–1,000 €/month + additional

allowances

www.funding-guide.de

DAAD

Research in Germany Land of Ideas



Research stays for university academics and scientists

In Brief
Short-term research stay at a state-

run or state-recognised university or non-university research institute in

Germany

Who? Postdocs / Junior researchers

Senior researchers

Duration? 1–3 months

※ Value? 2,000–2,150 €/month, incl. travel

allowance

www.funding-guide.de

DAAD

Research in Germany Land of Ideas



Re-invitation programme for former scholarship holders

In Brief Research and work projects at a state-

run or state-recognised HEI or non-

university research institute

Who? PhD students

Postdocs / Junior researchers

Senior researchers

***Duration?** 1–3 months

Fellowship: 2,000-2,150 €/month + Value?

travel allowances

www.funding-guide.de



DAAD



Bilateral exchange of academics

In Brief
Research and study visits

as part of bilateral

exchange of researchers and scholars with partner

countries

Who?
Postdocs / Junior

researchers

Senior researchers

Duration? 2 weeks–3 months

Value? Fellowship: 2,000-

2,150 €/month

www.funding-guide.de







Postdoctoral Researchers International Mobility Experience (P.R.I.M.E.)

In Brief Research stay: 12 months outside of

Germany and 6 months at a German

university

DAAD

Who?

Postdocs / Junior researchers

Duration?

18 months

Value?

Work contract: 3,500–4,500 €/month + additional allowances

www.daad.de/prime





Leibniz-DAAD research fellowships

In Brief
Research at a Leibniz Institute

DAAD

Who? Postdocs / Junior researchers



Duration? 12 months

Value? Fellowship: 2,000 €/month +

additional allowances (460 € research

allowance/year, health insurance,

2-month German course)

Research in Germany

www.daad.de/leibniz



DLR-DAAD research fellowships

In Brief Research / doctorate in space,

aeronautics, energy and transportation

research at a DLR Institute

Who?
PhD students

Postdocs / Junior researchers

Senior researchers

Duration? PhD students: 36 months

Junior researchers: 6–24 months Senior researchers: 1–3 months

Value? Fellowship: 1,500–2,300 €/month +

additional allowances

www.daad.de/dlr

DAAD







Step 1 Have a look at

www.funding-guide.de

Step 2 Select your status and country of origin

Step 3 Select your scholarship programme

Step 4 Read the details concering application

requirements and process

Step 5 Click on "submitting an application"

Step 6 register within the DAAD Online-Portal

and upload required documents

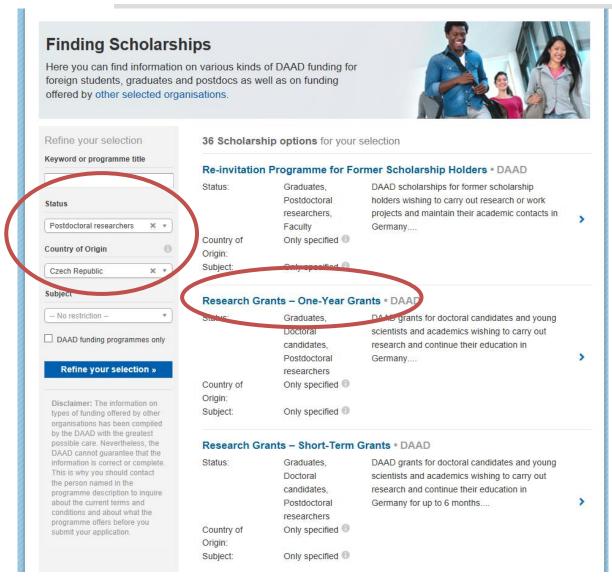
Step 7 When finished your application, print it

and send it to the application location

Research in Germany Land of Ideas

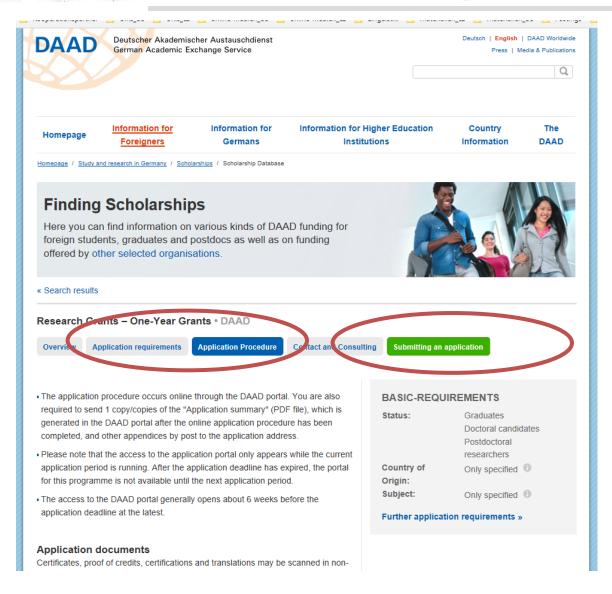
DAAD















1. Documents to be uploaded to the DAAD portal

- Online application form
- Full curriculum vitae in tabular form (max. 3 pages)
- · List of publications (max. 10 pages), if applicable
- Extensive and detailed description of the research proposal which has been discussed with the academic adviser and a description of previous research work (max. 10 pages)
- Schedule of planned research work
- Letter confirming supervision by an academic adviser in Germany, which refers to the applicant's proposal and confirms that the host institute will provide a workplace
- University degree certificate indicating final grade(s): the certificate must be subsequently submitted before the grant-supported research begins if it is not available at the time of application.
- Other documents which support your application (example: certificates of employment, proof of placements, etc.)
- All university certificates on all annual examinations with individual grade(s), incl. explanation of grading system.
- A German language certificate which may be issued by local DAAD lectors. These language certificates don't replace the necessary language certificate for your studies at the German university.
- German or English translations of documents submitted in the national language
- Copy of school-leaving certificate which entitles holders to study at a university in the home country (with all individual grades)
- Proof of admission to a doctoral programme at the home university insofar as the applicant intends to take a doctoral degree there
- In addition, an English language certificate in case the language of research is English

**

DAAD Programme

Projectbased mobility for researchers (PPP)



Startseite

Infos für Ausländer

Infos für Deutsche

Infos für Hochschulen

Startseite / Informationen für deutsche Hochschulen / Weltweite Programme / Mobilität und Austausch / Forschungsmobilität Projektbezogenen Personenaustauschs (PPP)

Forschungsmobilität - Programme des Projektbezogenen Personenaustauschs (PPP)



Zur Stärkung der Wissenschaftsbeziehungen zwischen einer deutschen und einer ausländischen Einrichtung und Förderung partnerschaftlicher Forschungsaktivitäten unterstützt der DAAD in den PPP-Programmen gemeinsame, bi-nationale Forschungsprojekte von hohem wissenschaftlichem Niveau. Die Projektmittel sind für die im Forschungsprojekt anfallenden Mobilitätskosten der deutschen Teilnehmer bestimmt und dienen insbesondere dazu, den am Projekt beteiligten Nachwuchswissenschaftlern einen Forschungsaufenthalt an der ausländischen Partnereinrichtung zu ermöglichen.

Partnership between
German and international
research institutions

Czech Partner: Akademie věd ČR

Next deadline: April 2018

Kontakt person for Germany:
Rachacova Karolina
rachacova@kav.cas.cz





*** *** DFG Scholarschip programmes



Research in Germany



Graduate schools

In Brief Candidates earn a PhD

as part of a structured

doctoral programme

Who?
PhD students

Postdocs / Junior

researchers

Duration? 3–4 years for PhD

positions, otherwise

dependent on the position

Value?
Work contract or

scholarship





www.dfg.de/en/excellence-initiative/gsc



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





Research Training Groups

In Brief
Focused research

programme as part of a DFG Research Training Group (*Graduiertenkolleg*)

Who?
PhD students

Postdocs / Junior

researchers

Duration? 2–3 years

Value? Work contract or

scholarship

www.dfg.de/gk/en







BMBF funded programmes





In Brief
Trips to leading German centres of

environmental and sustainability research,

followed by funded research stay

Who?
Master students, PhD students and

postdocs / Junior researchers with a

focus on sustainable development

Duration? Two-week science forum in Germany,

research stay of up to 3 months

Value? Grant for a research trip and research

stay

www.greentalents.de





Programmes founded by the Alexander von Humboldt foundation



Research in Germany



Georg Forster Research Fellowship for postdoctoral researchers

In Brief Development-related research project

with an academic host in Germany



Who? Postdocs / Junior researchers from

developing countries, emerging

economies, transition states

Duration? 6–24 months

Value? Fellowship: 2,650 €/month +

additional allowances

Research in Germany Land of Ideas

www.humboldt-foundation.de > Sponsorship



Individual doctoral projects at Fraunhofer Institutes

In Brief Doctorate at a Fraunhofer

Institute

Who?
PhD students

**** Duration?** 3 years

Work contract





www.fraunhofer.de > Jobs

Research in Germany



In Brief
Establishment of a

research group at a Fraunhofer Institute

Who?
Postdocs / Junior

researchers

Senior researchers

Duration? 5 years; continuation as

self-sustaining group

possible

☀ Value? Funding: up to 2.5 m €,

incl. own position





www.fraunhofer.de/en > Jobs / Career



Individual doctoral projects at Helmholtz Centres

In Brief
Doctorate at a Helmholtz

Centre

Who?
PhD students

**** Duration?** 3 years

Value?
Work contract or

scholarship





www.helmholtz.de/en > Jobs & Talents

Research in Germany



International Helmholtz Research Schools and Graduate Schools

In Brief
Structured doctoral

programmes in partnership

with universities

Who?
PhD students

**** Duration?** 3 years

Work contract or

scholarship





www.helmholtz.de/phd



Individual doctoral projects at Leibniz Institutes

In Brief
Doctorate at a Leibniz

Institute

Who?
PhD students

Duration? 2–3 years

Work contract





www.leibniz-association.eu > Careers

Research in Germany



Leibniz Graduate Schools and Leibniz ScienceCampi

In Brief
Structured PhD programme either at a

Leibniz Institute or a partner university

Leibniz Association

Who?
PhD students

Duration? Scholarship: max. 3 years

Work contract: 2–3 years

Value? Scholarship: 1,150–1,450 €/month

Work contract (usually part-time):

2,300-3,500 €/month

www.leibniz-association.eu > Careers





Individual doctoral projects at Max Planck Institutes

In Brief Doctorate at a Max

Planck Institute

Who?
PhD students

**** Duration?** 3 years

Work contract: approx.

2,000 - 3,000 €/month





www.mpg.de/jobboard



International Max Planck Research Schools

In Brief Structured doctoral programme in

cooperation with universities; degree

awarded by German university or

home university

Who?
PhD students

***Duration?** 3 years

Work contract: approx. 2,000 €/month

Research in Germany

www.mpg.de/jobboard



International visiting researchers at Max Planck Institutes

In Brief
Independent research at a

Max Planck Institute

Who?
PhD students

Postdocs / Junior

researchers

Senior researchers

Duration? PhD students: up to 6

months

Postdocs / Senior

researchers: up to 2 years

Grant + travel allowances





www.mpg.de/jobboard

Value?



Other Organisations:

BayHost:



Bavarian-Czech Academic Agency:

Bayerisch-Tschechische Hochschulagentur



Česko-bavorská vysokoškolská agentura

Research in Germany



Bayhost: indivdual scholarships at Bayarian universities





Czech-Bavarian Academic Agency: funding of joint projects

http://www.btha.cz/en/



Ausschreibung des Programms

Bayerisch-tschechische akademische Projekte 2017

Förderung für Projekte bayerischer Hochschulen mit Partnern in Tschechien zur Anbahnung weiterer Kooperationen (Konferenzen, wissenschaftliche Workshops, Sommer-/Winterschulen, Exkursionen, Projektbesprechungen)

Termine für die Antragstellung:

15.3. / 15.5. / 15.7. / 15.9.2017

(Eingang per E-Mail sowie Poststempel)



Česko-německý fond budoucnosti

* In Brief Podporování konkrétního

vědeckého projektu s

česko-německou tématikou

Who?
Studenti bakalárského,

magisterského,

doktorského sudia

****Duration?** 1 – 2 semestery

Application? 01.12.2016

www.fondbudoucnosti.cz



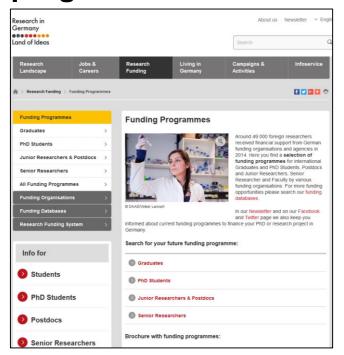




Brochure "Funding your research in Germany"



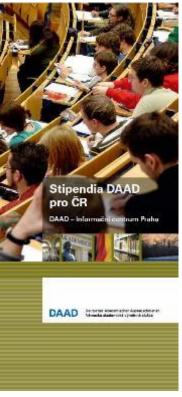
www.research-ingermany.org/fundingprogrammes





Brochures in English and Czech language

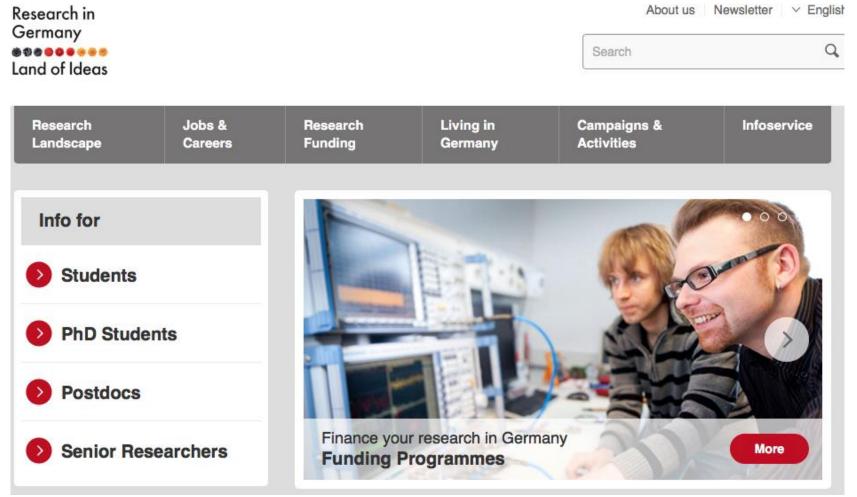








www.research-in-germany.org



Research in Germany



Websites and databases

- http://www.research-in-germany.org
- http://www.funding-guide.de
- http://www.euraxess.de
- http://www.research-explorer.de
- http://www.higher-education-compass.de







Finding a doctoral position

- PhD Germany www.phdgermany.de
- Research in Germany www.research-in-germany.org/jobs
- EURAXESSwww.euraxess.de
- Academicswww.academics.com





Consultation

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Visit us!













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