Contact:

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Helmholtz Research Mission & Strategy

- Systems solutions for grand challenges based on:
  - Scientific excellence
  - Interdisciplinarity and critical mass
  - Long term research programs

- Helmholtz provides a highly attractive environment for talents and brilliant brains

- Profound expertise in large scale research infrastructure

- Helmholtz as a prime strategic partner at the local, national and international level

- Transfer of knowledge into economy and society
Helmholtz Research Centers

1. Berlin
   Helmholtz-Zentrum Berlin für Materialien und Energie (HZB)

2. Berlin-Buch
   Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC)

3. Brunswick
   Helmholtz Center for Infection Research (HZI)

4. Bremerhaven
   Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung (AWI)

5. Bonn
   German Center for Neurodegenerative Diseases (DZNE)

6. Darmstadt
   GSI Helmholtz Center for Heavy Ion Research

7. Dresden
   Helmholtz Center Dresden Rossendorf (HZDR)

8. Garching
   Max Planck Institute for Plasma Physics (IPP) (Associate Member)

9. Geesthacht
   Helmholtz Center Geesthacht
   Center for Material and Coastal Research (HZG)

10. Hamburg
    Deutsches Elektronen-Synchrotron DESY

11. Heidelberg
    German Cancer Research Center (DKFZ)

12. Jülich
    Forschungszentrum Jülich

13. Karlsruhe
    Karlsruhe Institute of Technology (KIT)

14. Kiel
    GEOMAR Helmholtz Center for Ocean Research Kiel

15. Cologne
    German Aerospace Center (DLR)

16. Leipzig
    Helmholtz Center for Environmental Research (UFZ)

17. Munich
    Helmholtz Center Munich – German Research Center for Health and the Environment

18. Potsdam
    Helmholtz Center Potsdam
    German Research Center for Geosciences GFZ

Research Areas:
- Energy
- Earth and Environment
- Health
- Matter
- Aeronautics, Space and Transport
- Key Technologies
Facts and Figures
Personnel and Students & Budget 2017

As of 2016, the German federal government alone is financing the pact increase so that the federal government's share is over 90%.

** Including project sponsorships
The six Research Fields of the Helmholtz Association
We promote Talents

Facts and Figures

- 8,044 doctoral students together with universities
- 34 Helmholtz Graduate Schools and Helmholtz Colleges
- 2,637 post-doctoral students
- 208 Helmholtz Young Investigators Groups (with “tenure” option)
- 30 Helmholtz school laboratories
- 1,657 trainees
- 515 alumni of the Helmholtz Management Academy
- 299 alumni of the Mentoring Network for Women
Helmholtz Talent Management
Doctoral Students

Graduate Schools
- For most of the doctoral students at a center
- Professional and cross-disciplinary training
- Supporting stays abroad, conference participation, patents, publications etc.

College/Research Schools
- Approx. 25 doctoral students
- Working on a research topic together
- Often with international partners
- Further training and networking opportunities (retreats, Helmholtz Young Investigators etc.)

High standards in the promotion guidelines
Helmholtz Talent Management
Young Investigators Group Leaders

Early independence:
- Budget min. €300,000 per year for 6 years
- Option of qualifying for a university professorship

Excellent further training:
- Personnel development plan/tenure track
- Offers from the Helmholtz Academy

Target group:
- Top talent 2-6 years after earning a doctoral degree

Current:
- Development of guidelines for the postdoctoral phase
Innovation and Transfer
Helmholtz Association
Innovation and Transfer
Results – Key Figures

- **158** spin-offs from 2005 to 2016
- **19** spin-offs in 2016
- Every year, more than **2,000** cooperation projects with business, with revenues of approximately **€150 million** p.a.
- More than **1,400** license agreements with almost **€14 million** in revenue in 2016
- Every year over **400** new patent applications
- Portfolio of **12,300** property rights, more than one third of which are licensed
Helmholtz International
Helmholtz Association
Helmholtz Internationalization Strategy

Helmholtz Association: Foreign scientists and visiting researchers

As of: 2016

1,164
Thank you for your attention
## Non-university Research Organizations in Germany
(as of 2016)

<table>
<thead>
<tr>
<th>Organization</th>
<th>Budget/ in € billion</th>
<th>Employees in FTE*</th>
<th>Centers/ Institutes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Helmholtz Association</strong></td>
<td>4.26</td>
<td>34,435</td>
<td>18</td>
</tr>
<tr>
<td>Basic research in strategic programs</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Max-Planck-Gesellschaft</strong></td>
<td>1.87</td>
<td>15,549</td>
<td>84</td>
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<tr>
<td>Science-driven basic research</td>
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<tr>
<td><strong>Fraunhofer-Gesellschaft</strong></td>
<td>2.06</td>
<td>17,300</td>
<td>69</td>
</tr>
<tr>
<td>Industry-oriented research and development</td>
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<tr>
<td><strong>Leibniz-Gemeinschaft</strong></td>
<td>1.54</td>
<td>14,603</td>
<td>88</td>
</tr>
<tr>
<td>Long-term topics</td>
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</tbody>
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*Employees according to hours (FTE) for 2015

Source: GWK Monitoring Report 2016 Pact for Research and Innovation