Research and funding possibilities for German-Korean cooperation activities

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# The German Research Landscape

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<th>Organization</th>
<th>Mission</th>
<th>Logo</th>
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<tr>
<td>Alexander von Humboldt Foundation</td>
<td>promote academic cooperation globally</td>
<td>AvH</td>
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<tr>
<td>Fraunhofer-Gesellschaft</td>
<td>applied research</td>
<td>FhG</td>
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<tr>
<td>German Academic Exchange Service</td>
<td>support international exchange</td>
<td>DAAD</td>
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<td>German Research Foundation</td>
<td>fund excellent research</td>
<td>DFG</td>
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<td>Helmholtz Association</td>
<td>research with large scale equipment</td>
<td>HGF</td>
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<tr>
<td>Leibniz Association</td>
<td>research, service museums</td>
<td>WGL</td>
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<td>Leopoldina</td>
<td>nat. academy of sciences</td>
<td>Leopoldina</td>
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<tr>
<td>Max Planck Society</td>
<td>&quot;makers of nobel-prize winners&quot;</td>
<td>MPG</td>
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German Academic Exchange Service - DAAD
(Mainly Mobility)

Individual programs (undergraduate – postdoc) für Germans and Koreans
https://www.daad.de/ausland/studieren/stipendium/de/
https://www.daad.de/en/search/?q=Korea

Target group:
- students (internships, master program)
- PhD students (scholarships)
- postdocs (research grants 3 – 24 months)
- thematically focused grants
- travel grants

Also Project funding activities
Alexander von Humboldt Foundation - AvH
(Only people)

**Incoming:**
Humboldt Research Fellowships for postdocs
Humboldt Research Fellowships for experienced researchers
Alexander von Humboldt Professorship
Sofja Kovalevskaja Award
Georg Forster Research Fellowship
Friedrich Wilhelm Bessel Research Award

**Outgoing:**
Feodor-Lynen Research Fellowship

[www.avh.de](http://www.avh.de)
Deutsche Forschungsgemeinschaft - DFG
(Mainly projects)

All DFG funding programs generally allow the integration of international components as:
- travel allowance,
- exchange of students and/or scientists,
- guest researchers

Special programs are:

- Funding for the initiation of international cooperation
- Mercator Fellows
- Joint calls for proposals with partner organizations

www.dfg.de
Federal Ministry of Education and Research - BMBF
(Mainly projects, administered by Project Management Agencies)

Bilateral calls with MSIT and MOTIE with academic and industrial partners (2+2) on specific topics:
- ICT, nanotechnology, Bio/Health, environment, robotics

Calls for research presences in Asian partner countries (e.g. Korea)

Calls for Travelling Conferences
- Funding of organisation of scientific conferences in three different Asian countries (e.g. Korea)

All national BMBF funding programs generally allow the integration of international components

www.bmbf.de
Federal Ministry for Economic Affairs and Energy - BMWi
(Innovative projects)

Zentrales Innovationsprogramm Mittelstand (ZIM)

Call for proposals for joint research and development (R&D) projects between Germany and Korea
(Korean partner: KIAT)

www.zim-bmw.de/internationale-fue-kooperationen/ausschreibungen
ADeKo Alumninetzwerk Deutschland- Korea
Initiated by DAAD, funded by BMBF

World's largest and only national network of Korean alumni who have lived, studied and researched in Germany

40 Germany-Alumni associations are bundled within ADeKo

www.adeko.kr
The new High-Tech Strategy is based on five pillars

|   | Priority challenges with regard to value creation and quality of life | Enhance competitiveness  
|   | Networking and transfer | Strengthen cooperation  
|   | The pace of innovation in industry | Increase innovative strength  
|   | Innovation-friendly framework | Provide the basis for creativity and innovation  
|   | Transparency and participation | Arouse curiosity  

- Enhance value creation
- Promote forward-thinking

5 objectives and a set of measures, guided by the principle “networked and innovative”

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<th>Objective 1</th>
<th>Objective 2</th>
<th>Objective 3</th>
<th>Objective 4</th>
<th>Objective 5</th>
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<tr>
<td>Strengthening excellence through worldwide cooperation</td>
<td>Developing Germany’s strength in innovation on the international stage</td>
<td>Internationalising vocational training and qualification</td>
<td>Working with emerging and developing countries to shape the global knowledge-based society</td>
<td>Overcoming global challenges together</td>
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Research and academic relations policy and international networking (incl. Location marketing and international presence)

Monitoring
Backup
Stakeholders in the German research and innovation system

Fig. 6  Stakeholders in the German research and innovation system

- **Federal Government**
- **16 governments of the Länder**
- **Public research**
  - Universities
  - Academies
  - Departmental research
  - Research organisations (MPO, PhO, HGF, Leibniz)
- **Intermediaries**
  - DFO
  - Foundations (public and private)
  - Stifterverband
  - European Research Council (ERC)
  - Associations and Chambers
- **Advice**
  - Commission of Experts for Research and Innovation (EFI)
  - Industry-Science Research Alliance
  - Innovation Dialogue
- **R&D in the private sector**
  - Large and multinational enterprises
  - Small and medium-sized enterprises (SMEs)

1. MPG = Max Planck Society; PhO = Fraunhofer-Gesellschaft; HGF = Helmholtz Association; Leibniz = Gottfried Wilhelm Leibniz Scientific Association
2. German Federation of Industrial Research Associations (AIF)
3. German Research Foundation
The German Research Performing Organisations

- Länder (states) institutions
- Federal institutions
- Academies
- Research infrastructures
- Helmholtz Association
- Max Planck Society
- Leibniz Association
- University institutions

- Fraunhofer Gesellschaft
- Networks and clusters
- Companies, industrial research
- Industrial research, research associations (AiF)

- Public funding
- Private funding
The German System of Research and Technology

Higher Education Institutions
≈ 400 Institutions, € 14 billion (2015)
≈ 2.7 million students

Max Planck Society (MPG)
83 institutes
€ 1.8 billion (2016)

Leibniz Association
88 institutes
€ 1.83 billion (2016)

Fraunhofer-Gesellschaft (FhG)
69 national institutes
€ 2.1 billion (2015)

German Research Foundation (DFG)
€ 2.8 billion (2015)

Helmholtz Association of National Research Centres
18 national research centres
€ 4.45 billion (2015)

Research and development in companies
€ 53.0 billion (2013)

Research