

German Research Institutions at a Glance.



Status 4 / 2005 Cover: Inside view of the experimental fusion device ASDEX Upgrade (IPP)

German Academic Exchange Service (DAAD)
Secretariat of the Joint Initiative at the DAAD
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Study and Research in Germany
Kennedyallee 50
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Study and research in Germany
www.campus-germany.de

Hi!
Potentials

International careers made in Germany.

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 des denkenden Menschen ist,
 das Erforschliche erforscht zu haben
 und das Unerforschliche zu verehren.
Johann Wolfgang von Goethe

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Vorstellungskraft
 ist wichtiger
 als Wissen.
Albert Einstein

Preface

Dear Readers,

The international prestige and high degree of innovation enjoyed by Germany's broad spectrum of research facilities is the basis of its attraction.

Germany offers a unique network of university and non-university research, which collaborates closely with industry and commerce. The world-wide esteem accorded to German research institutes is comparable to that attributed to the research and development departments in German industry.

Highly qualified scientists and specialists from all over the world find a warm welcome in our network of top-level research, which is nurtured by the international exchange of ideas and people.

This brochure has been designed to give you a brief insight into the scope of the major research institutions and research funding organizations in Germany.

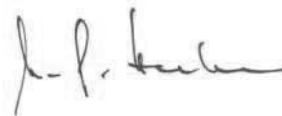
At a glance, you will find the core data relating to the profiles, tasks and goals of these institutions. If reading the portraits of these institutions raises any questions about specific programs or what is on offer here, you will find the web and postal addresses and a contact for each facility in the relevant text. If you have any questions please do not hesitate to contact us.

Das schönste Glück
des denkenden Menschen ist,
das Erforschliche erforscht zu haben
und das Unerforschliche zu verehren.
Johann Wolfgang von Goethe

Convinced of the quality of German research, I would like to invite you to come and spend some time doing research here.

You will discover a friendly country at the heart of Europe which is justifiably proud of the broad cultural diversity it offers.

Yours sincerely,




(Prof. Dr. Max G. Huber
Special delegate of the Federal
Government for the Promotion
of German Universities and German
Research Organizations abroad)

Fraunhofer Society



Fraunhofer Gesellschaft

Research Organization

Fraunhofer-Gesellschaft (FhG)
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Year of Foundation:

Fraunhofer was founded in 1949 to harness scientific knowledge and technological expertise.

Die gefährlichste aller
 Weltanschauungen ist die der Leute,
 welche **die Welt** nie angeschaut haben.
Alexander von Humboldt



Mission:

Fraunhofer promotes and undertakes applied research in an international context, of direct advantage to private and public enterprise and of great benefit to society as a whole.

Fraunhofer employs a staff of 12,000, mainly scientists and engineers, working in 80 research establishments at 40 locations throughout Germany.

By developing technological innovations and novel systems solutions for their customers, the Fraunhofer Institutes help to reinforce the competitive strength of the economy in their region, throughout Germany and in Europe. Their research activities are aimed at promoting the economic development of our industrialized society, with particular regard for social welfare and environmental compatibility.

As an employer, Fraunhofer offers a basis that enables its staff to develop the necessary professional and personal skills that will enable them to assume positions of responsibility within their institute, in industry and in other scientific domains.

Most Fraunhofer Institutes pool their expertise in Research Alliances located at major industrial bases, working jointly on the market to offer their customers a broad range of services.

Helmholtz Association of National Research Centers



Research Organization

Helmholtz-Gemeinschaft
Helmholtz Association of National Research Centers
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Year of Foundation:

Originally founded in 1970, renamed Helmholtz in 1995, restructuring as registered association in 2001.

Organizational Structure:

Registered association with 15 legally independent member centers throughout Germany. Program-oriented funding: Scientists develop research programs for each of the research fields. The review of these programs by international experts forms the basis for funding. The budget of € 2.2 billion comes from the federal government (90%) and the Länder (10%). 30% of the budget takes the form of third party funding. President: Prof. Dr. Walter Kröll

Functions and Objectives:

Helmholtz contributes to solving great challenges which face society, science and industry by performing top-rate research in strategic programs. Helmholtz researches systems of great complexity with its large-scale facilities and scientific infrastructure, cooperating closely with national and international partners. Helmholtz contributes to shaping our future by combining research and technology development with innovative applied and forward-planning perspectives.

Priorities:

Research fields: energy, earth and environment, health, key technologies, structure of matter, transport and space.

Number of Persons or Projects Supported:

24,000 staff working on 30 research programs in 6 research fields.

Highlights:

- Research with super-microscopes e.g. the electron-proton collider HERA, the new x-ray laser X-FEL, the planned International Accelerator Facility.
- Research network "Integrated Earth Observing System"
- Virtual institute "Key Materials for Lightweight Construction"



Leibniz Association



Research Organization

Leibniz-Gemeinschaft

Leibniz Association

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Year of Foundation:

1995

Organizational Structure:

Association of 84 scientifically, legally and economically independent research institutes and service facilities.



Functions and Objectives:

Leibniz Institutes are demand-oriented, interdisciplinary centers of competence and cooperation partners for industry, public administration and politics. Scientific cooperation with universities is particularly close and intensive. The research work carried out and services provided are of national significance and international reputation.

Priorities:

Leibniz Institutes undertake interdisciplinary scientific work in the fields of: humanities and educational research; economics, social sciences, regional infrastructure research; life sciences; mathematics, natural sciences, engineering; environmental research.

The umbrella organization coordinates the mutual interests of the associate institutes, representing these in public. It strengthens scientific cooperation, promotes up-and-coming academics and is responsible for the development of a comprehensive system of quality management.

Number of Persons or Projects Supported:

12,500 employees (5,100 academics); the institutes are funded by both the Federal Government and the German "Länder".

Highlights:

System of quality management: In a unique process, every institute is assessed externally at regular intervals by independent experts. Stifterverband Research Prize 2003 for Anna Wobus, one of Germany's renowned stem cell experts.



Max Planck Society for the Advancement of Science



Research Organization

Max-Planck-Gesellschaft zur Förderung des Wissenschaften e.V. (MPG)
 Max Planck Society for the Advancement of Science
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Year of Foundation:

The Max Planck Society was founded in 1948 to succeed the Kaiser Wilhelm Society, which was founded in 1911.

Organizational Structure:

The Max Planck Society is a non-profit organization under private law in the form of a registered association.

Functions and Objectives:

The primary goal of the Max Planck Society is to promote cutting-edge research at its own research institutes.

Priorities:

The research institutes of the Max Planck Society perform basic research of highest quality in the public interest in natural sciences, life sciences, social sciences, and the humanities. In particular, the Max Planck Society takes up new and innovative research areas in order to supplement research carried out by the German universities.

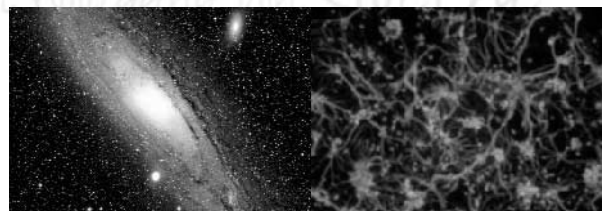
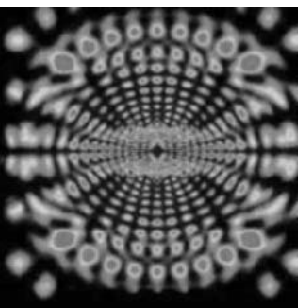
Number of Persons or Projects Supported:

In 78 institutes, research centers, laboratories and project groups of the Max Planck Society approx. 12,300 staff members are working, among them about 4,200 scientists and scholars. In addition, in 2004 there were also about 9,600 doctoral candidates, postdoctoral fellows and guest scientists and scholars.

Highlights:

- 15 Nobel laureates since 1948
- more than 12,500 scientific publications in 2003 (57 in *nature*, 48 in *Science* = one third of all German publications in these journals)
- ISI (Institute of Scientific Information) list of most cited scientists includes 35 researchers of the Max Planck Society

Das höchste Glück
 des denkenden Menschen ist,
 das Erforschliche erforscht zu haben
 und das Unerforschliche zu verehren.
 Johann Wolfgang von Goethe



Alexander von Humboldt Foundation



Research Funding Organization

Alexander von Humboldt-Stiftung (AvH)
 Alexander von Humboldt Foundation
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Foto: Oberlausitzische Bibliothek der Wissenschaften



Foto: BPK Berlin

Year of Foundation:

1953

Organizational Structure:

Non-profit foundation



Foto: AvH/Lichtenscheidt

Functions and Objectives:

Research fellowships and research awards for highly qualified postdoctoral scholars and scientists to spend extended periods of research in Germany and to maintain the ensuing academic and cultural contacts.

Priorities:

The Alexander von Humboldt Foundation is an independent and impartial organization. Its programs are open to applicants from all countries and all academic disciplines.

Number of Persons or Projects Supported:

- more than 1,800 researches from all over the world

Highlights:

- "Once a Humboldtian, always a Humboldtian": initial sponsorship is followed by life-long contacts
- follow-up sponsorship includes: funding for additional subsequent research stays in Germany, support for attending academic conferences, printing costs, and alumni meetings abroad
- active worldwide network of more than 23,000 fellows
- 35 Humboldtians received Nobel Prizes

Die gefährlichste aller
 Weltanschauungen ist die, die heute,
 welche die Welt nie a...ut haben.
 Alexander von Hu

German Academic Exchange Service

DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

Research Funding Organization

Deutscher Akademischer Austauschdienst (DAAD)
German Academic Exchange Service
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Year of Foundation:

Founded in 1925 in Heidelberg, initially with a special focus on German-American exchanges. 1950 formal re-establishment after World War II.

Organizational Structure:

The DAAD is a registered association under private law; its full members are, by application, the higher education institutions represented in the Association of Universities and other higher education institutions in Germany (HRK, Hochschulrektorenkonferenz) and their student bodies. The head office is located in Bonn. 14 branch offices are located all over the world, plus a large number of information and counseling centers.

Vorstellungskraft
ist wichtiger
als Wissen.
Albert Einstein

Functions and Objectives:

In the field of international academic cooperation, the DAAD simultaneously fulfils responsibilities in foreign cultural and academic policy, which focuses on the internationalization of research, teaching and studies as a prime objective.

Priorities:

The DAAD awards individual scholarships to foreign and German students, student trainees and interns, graduates, academics and scientists, artists and administrators. In principle, more than 200 different funding programs are open in both directions to all countries of the world and to all disciplines. Moreover the DAAD aims to increase the international appeal of Germany's higher education institutions and research institutions and raise interest in German language and culture abroad. Another task is to promote the academic, scientific, economic and democratic advancement of developing and reformed countries.

Number of Persons or Projects Supported:

In 2004, the DAAD funded some 50,000 individuals, among them about 30,000 foreign students, researchers and scientists.

Highlights:

The DAAD is the world's largest organization specifically designed to expand academic horizons through a wide variety of academic exchange programs.



German Research Foundation

Deutsche
Forschungsgemeinschaft

DFG

Research Funding Organization

Deutsche Forschungsgemeinschaft (DFG)
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Wo damals die
der
da ist jetzt die Mitte.
G. C. Lichtenberg

Year of Foundation:

The "Notgemeinschaft der Wissenschaft" (Provisional Association of German Science) of 1920 merged with the "Deutscher Forschungsrat" (German Research Council) in 1952 to form the DFG.

Organizational Structure:

The DFG is an association under private law. Its members are German universities and non-university research institutions.

Functions and Objectives:

The DFG is the self-governing body of the German scientific community. It serves all branches of science and the humanities by funding research projects and facilitating cooperation among researchers.

Priorities:

The DFG is devoted to promoting young scientists and to supporting international collaboration in all its programs.

Number of Persons or Projects Supported:

Currently the DFG supports some 25,000 projects.

Highlights:

The *Gottfried Wilhelm Leibniz Prize* is the highest honor awarded in German research and aims to improve the working conditions of outstanding scientists and academics. *DFG Research Centers* are an important strategic funding instrument to concentrate scientific research competence in particularly innovative fields and create internationally visible research priorities at German universities. The *Emmy Noether Program* enables outstanding junior researchers to gain the qualifications required for a university teaching career. *Research Training Groups* are university training programs established for a specific time period to support young researchers in their pursuit of a doctorate. *International Research Training Groups* provide opportunities for joint doctoral training between a group at a German university and a partner group at a foreign university.

