

## Call for Applications 15 February 2010

# 20 Helmholtz Young Investigators Groups

Sponsored by the President's Initiative and Networking Fund

### A. Goal of the Funding

In its mission statement, the Helmholtz Association defines promoting talented young scientists individually as one of its key objectives. With the establishment of Investigators Groups, the Association aims to provide the best foreign and German junior researchers with excellent working conditions in a research-oriented environment. Researchers are granted independence early on, with secure career prospects ('tenure track') based on proven scientific achievements. Investigators Group leaders are expected to work closely with university partners. In this way, they can experience the advantage of cooperating with important strategic partners in an environment where the optimal division of tasks leads to a common goal. At the same time, they are given the opportunity to gain teaching experience and acquire the necessary qualifications for a higher academic career. The President of the Helmholtz Association supports every endeavour to establish junior professorships for successful candidates jointly with the partner university.

### B. Object of the funding

Funding will be granted to up to 20 independent Young Investigators Groups working in the fields of *Energy, Earth and Environment, Health, Key Technologies, Structure of Matter, and Aeronautics, Space and Transport*. The funding of a Young Investigators Group amounts to a minimum of 250,000 euros a year. This includes:

- position of group leader, as a rule according to E 14/15 TVöD / BAT Ib/Ia,
- scientific or technical staff (three on average),
- expenses of materials and supplies and investments

Helmholtz Young Investigators Groups are set up jointly by the Helmholtz Centres and universities to work on overlapping areas of research and expertise of interest to both parties. The group's themes must have relevance to a Helmholtz programme and the university or faculty's primary focus. The group leader is expected to build up and to run close contacts to a partner university in his/her field of research and teaching during the period of funding. Where possible, the leaders of the Helmholtz-University Young Investigators Groups should also be given joint positions as junior professors.

Even in cases where there is no possibility of a junior professorship, leaders of the Young Investigators Groups should be jointly appointed by the Helmholtz Centre and the university and should have the same rights and obligations as junior professors (personnel and budget responsibilities, assisting PhD students in the completion of their doctoral studies, taking on

teaching assignments ≤ of 4 weekly seminars, access to all necessary resources/infrastructure), in accordance with the individual state laws on higher education.

The groups can be based at the university or at a Helmholtz Centre or at both institutions. However, they must perform specific scientific work for both partner institutions, as defined in the planned work programme.

In exceptional cases, the Helmholtz Young Investigators Groups may also be based at foreign institutes.

### **C. Target group**

This call is directed at top post-doctorates from domestic institutions - with proven research experience abroad - or international institutions. The most important selection criterion is the outstanding quality of the applicants.

### **D. Duration of funding**

The term of the research groups is 5 years with an evaluation after 3-4 years, in the case of joint appointments as junior professor 6 years. Following an unqualified positive evaluation, the candidate will then be given a permanent employment contract by a Helmholtz Centre without having to submit a new application. The decision to grant a permanent position of employment will be made on the basis of a quality assessment based on international standards of the candidate's scientific achievements, as well as an evaluation of the project's relevance to the corresponding Helmholtz programme. The examination procedure will be carried out by the host Centre with the substantial participation of external reviewers.

### **E. Application**

The call for applications will be issued internationally.

The procedure involves three stages

1. **Applicant** should approach the Helmholtz Centre directly by 30 March 2009 (see Information for Applicants), preferably via the contact person named.
2. The **Centres** decide on their nominees in agreement with the university partner and following a pre-selection process and ask the nominees to submit the complete application documents. These applications are then submitted to the Helmholtz Head Office via the boards of the centres by 25 May 2009. Applications sent directly to the Head Office will not be accepted.
3. Candidates are then selected from amongst the nominees on the basis of written recommendations given by international **Experts** and then the final choice made following a personal presentation by these candidates to the Helmholtz Young Investigators Groups **Review Panel**.

## Information for Applicants

Deadline for applications at Helmholtz Centres is 31 March 2010

### Eligibility criteria

- Eligible applicants are scientists 2 to max. 6 years after receiving their doctorate, i.e. post-doctoral experience is required. Child-rearing periods will be taken into consideration for up to two years per child.
- The applicant must have substantial international research experience. A continuous stay abroad of at least six months as part of doctoral or post-doctoral studies is required. The acquisition of an academic degree in combination with a minimum 6-month stay abroad is also acceptable.

(See also the “frequently asked questions” – [Appendix 1](#))

### How to apply – first step

- The candidates contact a Helmholtz Centre of their own accord via the given contact persons (see [Appendix 2](#)). Applicants are recommended, if possible, to also first contact the heads of potential institutes.
- The application must reach the **Centre by 31 March 2010** so that there is sufficient time to compile the complete application documents and to contact the university.
- The Centre must be provided with CV, list of publications and a brief outline of the planned work programme (Letter of Intent, max. 2 pages).
- No further steps are required by the applicant until the Centre requests further action.

### Further procedure

- The Centres make a pre-selection in agreement with the partner university.
- The Centres choose their nominees and ask them to submit the complete application documents.
- The Centres then submit these applications to the Helmholtz Association Head Office via their boards by 28 May 2010.

### Requirements for complete application documents (only for the second stage of selection)

- **Cover sheet should include**
  - Title of the research group
  - Name, current address, email and telephone number of the candidate
  - Name and organisational unit of host scientist
  - 5-6 keywords (as a basis for the selection of reviewers)
- **Short summary of the scientific part of the application in English and German wherever applicable (see [Appendix 3](#))**
- **Scientific part to be subjected to review (planned work programme of group)**
  - Maximum of 20 pages (exclusion criterion) in English
  - Statement on the relevance to a Helmholtz programme (see [Appendix 6](#)) after prior consultation with the host scientist in the Centre; and an additional statement on the relevance to the university/faculty’s primary focus (after consultation with the host scientist at the university). The benefits to both institutions need to be explained clearly.

- Presentation of clearly delineated work packages, important intermediary steps and milestones with a time schedule
- an account of the planned cooperation and communication structures

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- **Appendices**

- 1. **To be prepared by the applicant:**

- List of publications and academic distinctions
- Curriculum Vitae
- Rough financial plan agreed with the Centre (see below);
- Declaration of current employment and term of contract;
- Statements as to whether the application is simultaneously being submitted to another organisation for funding; if so, please specify.
- Suggestion list of reviewers agreed with the Centre (see below)

- 2. **To be prepared by the submitting Centre:**

- Written confirmation by the board:
  - of the partial funding, if applicable together with a university
  - of the provision of necessary facilities/infrastructure
  - of the tenure option, i.e. subsequent permanent employment following a positive evaluation<sup>1</sup>
  - description of the internal pre-selection process, including statistical overview
  - supporting letter from the direct superior (e.g. Head of Institute), where applicable with reference to the realisation of the tenure option
- Financial plan of the direct project-related costs/expenses (see [Appendix 4](#)) for five years showing the annual breakdown for each party according to personnel costs, costs of materials and supplies, and depreciation of investments (Helmholtz Centre), and personnel expenses, expenses of materials and supplies, and investments (University) respectively. Travel costs/expenses can be included in costs/expenses of materials and supplies. Overheads are not eligible.
- List of up to six independent reviewers for the proposal. This list with full contact details (including e-mail address) should be submitted with the proposal as a **separate document** also giving the signed declaration that a conflict of interest is ruled out (if applicable please declare connections which could possibly lead to conflicts of interests).

- 3. **To be prepared by the university:**

- a written statement by the university and the faculty:
  - on the rights and responsibilities (personnel and budget, assisting PhD students in the completion of their doctoral studies, taking on teaching assignments of 4 weekly seminars, access to all necessary resources/infrastructure) according to the requirements of the individual state laws on higher education
  - on the eligibility of the candidate, recommending her/him for appointment to professorship
  - on the career prospects at the university for employees with a joint appointment as junior professor if the Young Investigators Group leader would prefer to pursue an academic career after the funding period has ended.

A sample declaration form for universities on the rights and duties of a Young Investigators Group leader can be found in [Appendix 5](#).

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<sup>1</sup> If a university commits itself to hiring the group leader after the funding period has ended, the tenure declaration of the Centre is no longer applicable.

## Explanatory Information for Helmholtz Centres

**31 March 2010:** Internal deadline for submission of application documents to the Helmholtz Centre by the young investigator

**28 May 2010:** Deadline for submission of complete application documents to Head Office by Helmholtz Centre

- The candidate must apply to the Centre by **31.03.2010**, including CV, list of publications and a brief outline of the planned work programme (Letter of Intent, max. 2 pages). It is recommended to contact the given contact persons (Appendix 2 of documents) by phone.
- The Centre carries out a transparent pre-selection process. An account of this process must later be included in the application documents. In order to be able provide a long-term overview of the degree of interest in this funding measure for the Senate and Financing Partners, the Centre must include a statistical overview of the number of applications received and those rejected internally (sample document will be sent separately to contact person).
- The partner university should be involved in the selection process at an early stage, especially where a joint appointment is planned and to ensure the integration of the Young Investigator Group leader into the faculty (regarding teaching and supervision of PhD students). In case of foreign applicants who do not yet run close cooperation with a university a possible future university should be involved by the Centre as early as possible. The Centre should send the application documents of possible candidates on to the relevant faculty via the principal's office.
- The faculty confirms the rights and responsibilities of the candidate. A sample declaration form for universities is included in Appendix 5. In addition, the university and the faculty must provide a written statement on the eligibility of the candidate for appointment to professorship, following consultation with the Centre in this respect.
- The faculty sends its statement to the Centre involved via the principal's office.
- The Centre decides on its nominees and asks them to submit the complete application documents required. Where a renewed application is concerned, a **separate** report is necessary that describes developments since the last application. In this case it is advisable to contact the Head Office first. To alleviate handing of applications, each should be self-explanatory and contain all the necessary documents, i.e. written statements of the Centre's Board and Head of Institute involved (tenure option, facilities/infrastructure, partial funding, description of pre-selection process, supporting letter from host scientist). Each individual application must include at least copies of these documents (in addition to cover sheet).
- Applicant is the host Helmholtz Centre. The **complete application documents** (including all appendices) must be submitted in **quintuplicate**, as well as on a CD Rom as PDF or Word document, via the board of the Centre. These documents, etc. must reach the Head Office of the Helmholtz Association by **28.05.2010** at the latest (Address: **Helmholtz-Gemeinschaft, Geschäftsstelle, Ahrstraße 45, 53175 Bonn** (preclusion period)).

### Requirements for complete application documents

- **Cover sheet should include**
  - Title of the research group
  - Name, current address, email and telephone number of the candidate
  - Name and organisational unit of host scientist
  - 5-6 keywords (as a basis for the selection of reviewers)
- **Short summary of the scientific part of the application in English (see Appendix 3)**
- **Scientific part to be subjected to review (planned work programme of group)**
  - Maximum of 20 pages (exclusion criterion) in English

- Statement on the relevance to a Helmholtz programme (see [Appendix 6](#)) after prior consultation with the host scientist in the Centre. An additional statement on the relevance to the university/faculty's primary focus (after consultation with the host scientist at the university). The benefits to both institutions need to be explained clearly.
  - Presentation of clearly delineated work packages, important intermediary steps and milestones with a time schedule
  - An account of the planned cooperation and communication structures
- **Appendices**

**1. To be prepared by the applicant:**

- List of publications and academic distinctions
- Curriculum Vitae
- Rough financial plan agreed with the Centre (see below);
- Declaration of current employment and term of contract;
- Statements as to whether the application is simultaneously being submitted to another organisation for funding; if so, please specify.
- Suggestion list of reviewers agreed with the Centre (see below)

**2. To be prepared by the submitting Centre:**

- Written confirmation by the board:
  - of the partial funding, if applicable together with a university
  - of the provision of necessary facilities/infrastructure
  - of the tenure option, i.e. subsequent permanent employment following a positive evaluation<sup>2</sup>
  - description of the internal pre-selection process, including statistical overview
  - supporting letter from the direct superior (e.g. Head of Institute), where applicable with reference to the realisation of the tenure option
- Financial plan of the direct project-related costs/expenses (see [Appendix 4](#)) for five years showing the annual breakdown for each party according to personnel costs, costs of materials and supplies, and depreciation of investments (Helmholtz Centre), and personnel expenses, expenses of materials and supplies, and investments (University) respectively. Travel costs/expenses can be included in costs/expenses of materials and supplies. Overheads are not eligible.
- List of up to six independent reviewers for the proposal. This list with full contact details (including e-mail address) should be submitted with the proposal as a **separate document** also giving the signed declaration that a conflict of interest is ruled out (if applicable please declare connections which could possibly lead to conflicts of interests).  
**Note:** Conflicts of interest could arise, for example, from common publications with the applicants within the last 5 years, close cooperation in research projects, advisory function to the centre, membership in a centre's advisory body, current or former employer-employee relationship, as user of centre-owned research infrastructures, current or unsuccessful appointment proceedings. Fulfilment of one or more of such criteria does not inevitably lead to preclusion; should however be declared for the sake of a transparent procedure.

**3. To be prepared by the university:**

- a written statement by the university and the faculty:
  - on the rights and responsibilities (personnel and budget, assisting PhD students in the completion of their doctoral studies, taking on teaching assignments of  $\leq 4$  weekly

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<sup>2</sup> If a university commits itself to hiring the group leader after the funding period has ended, the tenure declaration of the Centre is no longer applicable.

- seminars, access to all necessary resources/infrastructure) according to the requirements of the individual state laws on higher education
- on the eligibility of the candidate, recommending her/him for appointment to professorship

A sample declaration form for universities on the rights and duties of a Young Investigators Group leader can be found in [Appendix 5](#).

### **Additional Information:**

The funding of a Young Investigators Group amounts to a minimum of 250,000 euros a year. This includes:

- position of group leader, as a rule according to E 14/15 TVöD / BAT Ib/Ia,
- scientific or technical staff (three on average),
- expenses of materials and supplies and investments.

The proportionate funding from the President's Initiative and Networking Fund amounts to 125.000 Euros per year. The remaining costs will be covered by the host Centre and the partner university; both parties are expected to participate in the funding.

After three to four years the Centres run an evaluation of the Young Investigator Group, where applicable after consultation with the partner university. The result of the evaluation is the base of the tenure decision.

Funding will be on the basis of a financing contract between the Helmholtz Association and the host Centre. The Helmholtz contribution will be paid as a fixed sum which is not repayable and is granted on the basis of the regulations NKBF 98 which will be included as an element of the contracts.

## **Appendix 1**
















### **Frequently Asked Questions (FAQ)**

- *What if I do not fulfill the eligibility criteria (2 - max. 6 years after receiving doctorate, at least six months abroad)?*  
Applicants who do not fulfill these requirements are advised not to apply. The President of the Helmholtz Association reserves the right not to pass on such applications for evaluation. Nevertheless, funding is possible in certain justified cases.
- *Does evidence have to be given for child-rearing periods?*  
It is sufficient for these periods to be noted in the CV.
- *What academic certificates should I submit?*  
Academic certificates must not be submitted.
- *Who submits the confirmation of the host Centre on proportional funding, facilities and the tenure option?*  
The contact persons at the individual Centres listed in [Appendix 2](#) will include the required confirmation in the complete application of their own accord. Please address any queries on this matter to these contact persons.
- *Is the general confirmation of the Centre sufficient or is an additional supporting letter from the host institute necessary?*  
A letter of support from the direct superior (as a rule, the head of the institute) is indeed required.
- *What are the requirements for the written statement by the university and the faculty for the Helmholtz Young Investigators Groups?*  
The letter from the university should be signed by a high-ranking official (President or Vice-Chancellor and Dean, including official stamp). All the points listed in the „Information for Applicants“ should be taken into account. A sample declaration can be found in [Appendix 5](#).
- *What is a milestone?*  
A milestone is a decision-making stage between two phases of the project, when the results achieved so far are evaluated and the go-ahead for the next phase is given.
- *How does the selection procedure work?*  
The selection procedure takes place in three steps:  
In a first step, there is a pre-selection of the applications in the Helmholtz-Centre. The pre-selection procedure is the responsibility of the respective Centre board.  
In a second step the applications formally examined by the Helmholtz Head Office are passed on for expert evaluation to at least two experienced, independent scientists, who are themselves actively engaged in the research field in question or are intimately familiar with the particular subject.  
Based on the recommendations of the reviewers, the candidates with very good evaluations – normally around 30 – are invited to an interview with an interdisciplinary reviewer panel chaired by the President of the Helmholtz Association. In the third step this panel selects the group leaders to receive funding.
- *What criteria are used in the selection procedure?*
  - Excellence of the proposed programme: degree of innovation, relevance; structure and feasibility
  - Quality of the candidate: including CV, publications, academic distinctions etc.
  - Formal quality of the application

- In the case of Helmholtz-University Young Investigators Groups: Clearly discernible synergy effects from the collaboration between the Centre and the university partner.
- *Are there set selection quotas for the individual Centres or research fields?*  
No, the candidates will compete for selection and the best chosen, independent of topic or Centre.
- *When can I expect an invitation to a selection interview?*  
The final selection meeting will take place in the beginning of September 2009. You will be notified of the date for the selection meeting along with the confirmation of receipt of your application at the beginning of June 2009. If you are successful in passing the written stage of selection, you will be invited to give your presentation at the selection meeting with approx four weeks' notice.
- *When is the final decision made?*  
Directly after the selection meeting; the process from submission of the complete application to the final selection will thus take approx 3 months.

## Appendix 2

### Details of the contact persons in the Helmholtz Centres

<p><b>Alfred-Wegener-Institut für Polar- und Meeresforschung</b>  <b>Dr. Angelika Dummermuth</b>            Am Handelshafen 12            27570 Bremerhaven            (Gebäude E-3370)            +49(0)471 4831-1152  <a href="mailto:angelika.dummermuth@awi.de">angelika.dummermuth@awi.de</a>  <a href="http://www.awi.de">www.awi.de</a></p> 	<p><b>Karlsruhe Institute of Technology</b>  <b>Dr. Michael Kleinschmidt / Wolfgang Reik</b>            Hermann-von-Helmholtz-Platz 1            76344 Eggenstein-Leopoldshafen            +49(0)721 608-8233 /            +49(0)7247 82-9065  <a href="mailto:Michael.Kleinschmidt@kit.edu">Michael.Kleinschmidt@kit.edu</a> /  <a href="mailto:wolfgang.reik@kit.edu">wolfgang.reik@kit.edu</a>  <a href="http://www.fzk.de">www.fzk.de</a></p> 	<p><b>Helmholtz Zentrum München – Deutsches Forschungszentrum für Gesundheit und Umwelt</b>  <b>Dr. Barbara Köhler</b>            Ingolstädter Landstraße 1            85764 Neuherberg            +49(0)89 3187-3857  <a href="mailto:barbara.koehler@helmholtz-muenchen.de">barbara.koehler@helmholtz-muenchen.de</a>  <a href="http://www.helmholtz-muenchen.de">www.helmholtz-muenchen.de</a></p> <p style="text-align: right;"><b>HelmholtzZentrum münchen</b></p>
<p><b>Deutsches Elektronen-Synchrotron DESY</b>  <b>Dr. Ilja Bohnet</b>            Notkestraße 85            22607 Hamburg            +49(0)40 8998-4888  <a href="mailto:ilja.bohnet@desy.de">ilja.bohnet@desy.de</a>  <a href="http://www.desy.de">www.desy.de</a></p> 	<p><b>GSI Helmholtzzentrum für Schwerionenforschung</b>  <b>Karin Füssel / Dr. Klaus-Dieter Groß</b>            Planck-Straße 1            64291 Darmstadt            +49(0)6159 71-1441 / 2535  <a href="mailto:k.fuessel@gsi.de">k.fuessel@gsi.de</a> / <a href="mailto:K.D.Gross@gsi.de">K.D.Gross@gsi.de</a>  <a href="http://www.gsi.de">www.gsi.de</a></p> 	<p><b>Helmholtz-Zentrum für Umweltforschung - UFZ</b>  <b>Dr. Martina Kunz-Pirrung</b>            Permoserstraße 15            04318 Leipzig            +49(0) 341 235 -1086  <a href="mailto:martina.kunz-pirrung@ufz.de">martina.kunz-pirrung@ufz.de</a>  <a href="http://www.ufz.de">www.ufz.de</a></p> 
<p><b>Deutsches Krebsforschungszentrum</b>  <b>Dr. Katja Engelmann</b>            Im Neuenheimer Feld 280            69120 Heidelberg            +49(0)6221 42-2165  <a href="mailto:k.engelmann@dkfz-heidelberg.de">k.engelmann@dkfz-heidelberg.de</a>  <a href="http://www.dkfz.de">www.dkfz.de</a></p> 	<p><b>GKSS-Forschungszentrum Geesthacht</b>  <b>Dr. Iris Ulrich</b>            Max Planck-Straße 1            21502 Geesthacht            +49(0)4152 87-1633  <a href="mailto:iris.ulrich@gkss.de">iris.ulrich@gkss.de</a>  <a href="http://www.gkss.de">www.gkss.de</a></p> 	<p><b>Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum – GFZ</b>  <b>Dr. Oliver Bens</b>            Telegrafenberg            14473 Potsdam            +49(0)331 288-1060  <a href="mailto:bens@gfz-potsdam.de">bens@gfz-potsdam.de</a>  <a href="http://www.gfz-potsdam.de">www.gfz-potsdam.de</a></p> 
<p><b>Deutsches Zentrum für Luft- und Raumfahrt</b>  <b>Dr. Jürgen Ortner</b>            Unternehmensentwicklung und Außenbeziehungen            Linder Höhe            51147 Köln            +49(0)22 03 601-3431  <a href="mailto:juergen.ortner@dlr.de">juergen.ortner@dlr.de</a>  <a href="http://www.dlr.de">www.dlr.de</a></p> 	<p><b>Helmholtz-Zentrum Berlin für Materialien und Energie</b>  <b>Dr. Klaus Möhring</b>            Glienicker Straße 100            14109 Berlin            +49(0)30 8062-2763  <a href="mailto:moehring@helmholtz-berlin.de">moehring@helmholtz-berlin.de</a>  <a href="http://www.helmholtz-berlin.de">www.helmholtz-berlin.de</a></p> 	<p><b>Max-Delbrück-Centrum für Molekulare Medizin</b>  <b>Dr. Christina Quensel</b>            Robert-Rössle-Straße 10            13125 Berlin            +49(0)30 9406-3478  <a href="mailto:cquensel@mdc-berlin.de">cquensel@mdc-berlin.de</a>  <a href="http://www.mdc-berlin.de">www.mdc-berlin.de</a></p> 
<p><b>Forschungszentrum Jülich</b>  <b>Dr. Bärbel Köster</b>            52425 Jülich            +49(0)24 61 61-1595  <a href="mailto:b.koester@fz-juelich.de">b.koester@fz-juelich.de</a>  <a href="http://www.fz-juelich.de">www.fz-juelich.de</a></p> 	<p><b>Helmholtz-Zentrum für Infektionsforschung</b>  <b>Dr. Michael Strätz</b>            Inhoffenstraße 7            38124 Braunschweig            +49(0)531 6181-2020  <a href="mailto:michael.straetz@helmholtz-hzi.de">michael.straetz@helmholtz-hzi.de</a>  <a href="http://www.helmholtz-hzi.de">www.helmholtz-hzi.de</a></p> 	<p><b>Max-Planck-Institut für Plasmaphysik</b>  <b>Dr. Werner Dyckhoff</b>            Boltzmannstraße 2            85748 Garching            +49(0)89 3299-2231  <a href="mailto:werner.dyckhoff@ipp.mpg.de">werner.dyckhoff@ipp.mpg.de</a>  <a href="http://www.ipp.mpg.de">www.ipp.mpg.de</a></p> 
<p><b>Deutsches Zentrum für neurodegenerative Erkrankungen</b>  <b>Susanne Wolf</b>            Ludwig-Erhard-Allee 2            53127 Bonn            +49(0)228-287-13054  <a href="mailto:Susanne.wolf@dzne.de">Susanne.wolf@dzne.de</a>  <a href="http://www.dzne.de">www.dzne.de</a></p> 		

**Summary of complete application**

Young Investigator Group Leader	
Application Title	
Helmholtz Host Centre	
University	
<p>Please formulate this summary so that it is comprehensible to scientists without expertise in your field. Format guidelines: Arial 11, line spacing 1.</p>	

**Appendix 4**

<b>Total financial budget of the Helmholtz Young Investigators Group</b>						
	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Sum</b>
<b>Helmholtz Centre</b>						
personnel costs						
costs of materials and supplies						
depreciation of investments						
<b>University</b>						
personnel expenses						
expenses for materials and supplies						
investments						
<b>Total budget Helmholtz Centre + University</b>						

Please indicate only direct project-related costs/expenses. Overheads are not eligible.

## **Joint Statement**

The \_\_\_\_\_ University and the....Faculty expressly welcomes the application of Mr/Ms \_\_\_\_\_ for a leadership position of a Helmholtz Young Investigators Group with the title \_\_\_\_\_ at the \_\_\_\_\_ (institute where the group is to be based).

The subject of the Helmholtz Young Investigators Group \_\_\_\_\_ makes an important contribution to the declared focus \_\_\_\_\_ of the faculty \_\_\_\_\_ and the University.

In order to grant Mr/Ms \_\_\_\_\_ independence early on and to give him/her the opportunity to qualify him/herself for an academic career, the University and the Faculty declare the following:

- As group leader, Mr/Ms \_\_\_\_\_ will be integrated into research and teaching at the Faculty. By mutual agreement, he/she will be entrusted with teaching responsibilities in the amount of max. four units a week.
- The University and the Faculty will not issue official instructions that would influence the group leader's independent work on the specified research project.
- Mr/Ms \_\_\_\_\_ will be given the responsibility for the personnel and budget of the group and will have the right to act as doctoral thesis supervisor and to award doctoral degrees.
- The Young Investigators Group will have access to all necessary resources (specify if necessary) and will be able to use the infrastructure of the University (specify if necessary).

In view of a joint appointment as junior professor:

- We can recommend Mr/Ms \_\_\_\_\_ for appointment \_\_\_\_\_ yes  no

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Signature of university representative  
Official stamp

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Signature of group leader

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Signature of Faculty representative

## Appendix 6

### Programmatic Structure in the Helmholtz Association

RF-Coordinator Programme Spokesman	Research Field Programme Programme Topic	Participating Centres
<b>Prof. Dr. Eberhard Umbach, FZK</b>	<b>Energy</b>	<b>DLR, FZJ, KIT, GFZ, HZB, IPP, UFZ</b>
Prof. Dr. Bernd Rech, HZB	Renewable Energies	DLR, FZJ, KIT, GFZ, HZB, UFZ
	Thin Film Photovoltaics	FZJ, HZB
	Concentrating Solar Systems	DLR
	Geothermal Technologies	KIT, GFZ, UFZ
	Refining Biomass into Chemical Energy	KIT, UFZ
Prof. Dr. Manfred Aigner, DLR	Efficient Energy Conversion and Use	DLR, FZJ, KIT
	Fuel Conversion and Gas Cleaning	KIT
	Power Plants	DLR, FZJ, KIT
	Fuel Cells	DLR, FZJ
	Superconductivity	KIT
	Energy-efficient Processes	DLR, KIT
Prof. Dr. Robert Wolf, IPP	Nuclear Fusion	FZJ, KIT, IPP
	Stellarator research	FZJ, KIT, IPP
	Tokamak physics for ITER and beyond	FZJ, IPP
	Fusion technology for ITER	FZJ, KIT, IPP
	Fusion technology beyond ITER	KIT, IPP
	Plasma-wall interactions	FZJ, KIT, IPP
	Plasma theory	FZJ, IPP
Dr.-Ing. Joachim U. Knebel, KIT	Nuclear Safety Research	FZJ, KIT
	Safety Research for Nuclear Reactors	FZJ, KIT
	Safety Research for Nuclear Waste Disposal	FZJ, KIT
	Radiation Research	KIT
Prof. Dr. Armin Grunwald, KIT	Technology, Innovation & Society - joint programme with the RF key technologies	DLR, FZJ, KIT, UFZ
	Science and Technology in Society: Challenges and Expectations	FZJ, KIT
	Key Technologies and Innovation Processes	FZJ, KIT
	Transformation of Energy Systems	FZJ, KIT
	Renewable Energies	DLR, KIT, UFZ
	Efficient Energy Conversion and Use	FZJ, KIT
<b>Prof. Dr. Karin Lochte, AWI</b>	<b>Earth and Environment</b>	<b>AWI, FZJ, KIT, GFZ, GKSS, HMGU, UFZ</b>
Prof. Dr. Onno Oncken, GFZ	Geosystem: The Changing Earth	GFZ
	Earth System Monitoring: Global Processes and Change	GFZ
	Earth System Dynamics: Coupled Processes and Regional Impact	GFZ
	Natural Hazards: Understanding, Assessment and Disaster Reduction	GFZ
	Georesources: Sustainable Use and Environmental Engineering	GFZ
	<i>MESI (Modular Earth Science Infrastructure)</i>	GFZ
Prof. Dr. Christoph Kottmeier, KIT	Atmosphere and Climate	FZJ, KIT, GFZ
	Climate and Water Cycle	KIT, GFZ
	Regionale Klimaänderungen und –auswirkungen	KIT
	Processes of trace constituents in the troposphere	FZJ, KIT
	Composition and Dynamics of the Upper Troposphere and Stratosphere	FZJ, KIT, GFZ

<b>RF-Coordinator</b> Programme Spokesman	<b>Research Field</b> Programme Programme Topic	<b>Participating Centres</b>
Prof. Dr. Heinrich Miller, AWI	Marine, Coastal and Polar Systems	AWI, GKSS
	The Changing Arctic and Antarctic	AWI, GKSS
	Coastal responses to global change	AWI, GKSS
	Lessons from the past	AWI
	Earth system analysis and synthesis	AWI, GKSS
	Infrastructure	AWI
	<i>Polar Research Ships</i>	AWI
	<i>Polar Research Aircrafts</i>	AWI
	<i>Polar Research Stations</i>	AWI
Prof. Dr. Bernd Hansjürgens, UFZ	Terrestrial Systems	FZJ, HMGU, UFZ
	Land Use Options in Response to Climate and Global Change	HMGU, UFZ
	Sustainable Bio-Production	FZJ, HMGU, UFZ
	Management of Water Resources Systems	UFZ
	Safeguarding Drinking Water Resources	HMGU, UFZ
	Chemicals in the Environment	FZJ, UFZ
	Methods and Technologies for Monitoring and for Integrated Assessment	FZJ, HMGU, UFZ
	<i>Safira</i>	UFZ
<b>Prof. Dr. Otmar D. Wiestler, DKFZ</b>	<b>Health</b>	<b>DKFZ, FZJ, GKSS, HMGU, GSI, HZI, MDC, UFZ</b>
Prof. Dr. Otmar D. Wiestler, DKFZ	Cancer Research	DKFZ, GSI, MDC
	Signaling Pathways, Cell and Tumor Biology	DKFZ, MDC
	Structural and Functional Genomics	DKFZ, MDC
	Cancer Risk Factors and Prevention	DKFZ
	Tumor Immunology	DKFZ, MDC
	Imaging and Radiooncology	DKFZ, GSI
	Infection and Cancer	DKFZ
	Translational Cancer Research	DKFZ, MDC
Prof. Dr. Thomas Willnow, MDC	Cardiovascular and Metabolic Diseases	DKFZ, GKSS, MDC
	Molecular and Cellular Concepts of Cardiovascular Function	DKFZ, MDC
	Genetics and Pathophysiology of Cardiovascular Diseases	DKFZ, GKSS, MDC
	Regenerative Medicine and Active Biomaterials	GKSS
Prof. Dr. Karl Zilles, FZJ	Function and Dysfunction of the Nervous System	FZJ, MDC
	Signalling Pathways and Mechanisms in the Nervous System	FZJ, MDC
	Imaging the Living Brain	FZJ, MDC
	Pathophysiological Mechanisms of Neurological and Psychiatric Diseases	FZJ, MDC
Prof. Dr. Jürgen Wehland, HZI	Infection and Immunity	HZI
	Microbial Pathogenesis	HZI
	Host Resistance and Susceptibility	HZI
	Inflammation and Immunity	HZI
	Strategies for Prevention and Therapy of Infectious Diseases	HZI
	Translational Infection Research	HZI
Prof. Dr. Martin Göttlicher, HMGU	Environmental Health	HMGU, UFZ
	Mechanisms of Response	HMGU
	Immune System	HMGU
	Respiratory System	HMGU, UFZ
	Epidemiology and Health Economics	HMGU, UFZ
	Ionizing Radiation	HMGU
Prof. Dr. Martin Hrabé de Angelis, HMGU	Systemic Analysis of Multifactorial Diseases	HMGU
	Systemic Approaches to Human Health	HMGU
	Deciphering Mechanisms of Pathways and Diseases in vivo and in vitro	HMGU

	Functional Modules in Systems Biology	HMGU
<b>Prof. Dr. Achim Bachem, FZJ</b>	<b>Key Technologies</b>	<b>FZJ, KIT, GKSS</b>
Prof. Dr. Dr. Thomas Lippert, FZJ	Supercomputing	FZJ, KIT
	Computational Science and Mathematical Methods	FZJ, KIT
	Grid Technologies and Infrastructures	FZJ, KIT
	<i>Supercomputer Facility</i>	FZJ
Prof. Dr.-Ing. Rainer Waser, FZJ	Fundamentals of Future Information Technology	FZJ
	Frontiers of charge based electronics	FZJ
	Spin-based and quantum information	FZJ
	Sensorics and bioinspired systems	FZJ
	Exploratory materials and phenomena	FZJ
	<i>Peter Grünberg-Centre (PG-C)</i>	FZJ
Prof. Dr. Horst Hahn, KIT	<b>NANOMICRO: Science, Technology and Systems</b>	<b>KIT</b>
	Condensed Matter and Molecular Building Blocks	KIT
	Tailored and Tuneable Properties of Nanomaterials	KIT
	Process Development	KIT
	Optics and Photonics	KIT
	Energy Storage	KIT
	<i>Karlsruhe Nano Micro Facility (KNMF)</i>	KIT
Prof. Dr. Rüdiger Bormann, GKSS	<b>Advanced Engineering Materials</b>	<b>GKSS</b>
	Leight-Weight Structural Materials	GKSS
	Mechanics and Joining of Light-weight Materials	GKSS
	Functionalised Materials	GKSS
Prof. Dr. Gerhard Gompper, FZJ	<b>BioSoft: Molecular Systems and Biological Information Processing</b>	<b>FZJ</b>
	Soft Matter Composites	FZJ
	Structural Biology	FZJ
	Physics of the Cell	FZJ
Prof. Dr. Uwe Strähle, KIT	<b>Molecular and Cellular Interactions at Functional Interfaces</b>	<b>KIT</b>
	Biological Key Targets	FZK
	Synthetic Biomimetic Tools	FZK
	Biofunctional Surfaces	FZK
	Biofilms on technical surfaces	FZK
Prof. Dr. Armin Grunwald, KIT	Technology, Innovation & Society - joint programme with the RF key technologies, see RF energy	FZJ, KIT
<b>Prof. Dr. Albrecht Wagner, DESY</b>	<b>Structure of Matter</b>	<b>DESY, FZJ, KIT, GKSS, GSI, HZB</b>
Prof. Dr. Joachim Mnich, DESY	Elementary Particle Physics	DESY, KIT
	HERA	DESY
	LHC	DESY
	Preparation for a future lepton collider	DESY
	Theoretical Particle Physics	DESY
	Experimental Facilities	DESY
	<i>GridKa</i>	FZK
	<i>DESY Grid Centre</i>	DESY
Prof. Dr. Johannes Blümer, FIT	Astroparticle Physics	DESY, KIT
	Ultra-high energy cosmic rays	KIT
	High-energy neutrino astrophysics	DESY
	High-energy gamma-ray astronomy	DESY
	Direct search for Dark Matter	KIT
	Neutrino physics	KIT
	<i>Pierre Auger Observatory</i>	KIT
	<i>Karlsruhe Tritium Neutrino Experiment KATRIN</i>	KIT
Prof. Dr. Klaus Peters, GSI	<b>Physics of Hadrons and Nuclei</b>	<b>FZJ, GSI</b>
	Hadrons Structure and Dynamics (HSD)	FZJ, GSI
	Nuclear and Quark Gluon Matter (NQM)	GSI
	Exotic Nuclei and Nuclear Astrophysics (ENNA)	GSI

	<i>Participation in FAIR</i>	FZJ, GSI
	<i>COSY</i>	FZJ
	<i>SIS 18/UNILAC</i>	GSI
<b>Prof. Dr. Andreas Schreyer, GKSS</b>	<b>Research with Photons, Neutrons and Ions (PNI)</b>	<b>DESY, FZJ, KIT, GKSS, GSI, HZB</b>
	Photons	DESY, KIT, GKSS, HZB
	<i>ANKA</i>	KIT
	<i>BESSY II</i>	HZB
	<i>DORIS III</i>	DESY
	<i>PETRA III</i>	DESY
	<i>GEMS-P</i>	GKSS
	<i>FLASH</i>	DESY
	<i>DESY-participation in XFEL</i>	DESY
	Neutrons	FZJ, GKSS, HZB
	<i>FRG-1</i>	GKSS
	<i>GEMS-N</i>	GKSS
	<i>BER II</i>	HZB
	<i>JCNS</i>	FZJ
	Ions	GSI
	<i>Accelerator facilities at GSI</i>	GSI
	<i>GSI-participation in FAIR</i>	GSI
	In-house Research with PNI	DESY, FZJ, KIT, GKSS, GSI, HZB
<b>Prof. Dr.-Ing. Johann-Dietrich Wörner, DLR</b>	<b>Aeronautics, Space and Transport</b>	<b>DLR</b>
<b>Dipl.-Ing. Horst Hüners, DLR</b>	<b>Aeronautics</b>	<b>DLR</b>
	Fixed-Wing Aircraft	DLR
	Rotorcraft	DLR
	Propulsion Systems	DLR
	ATM and Operation	DLR
<b>Dr. Hubert Reile, DLR</b>	<b>Space</b>	<b>DLR</b>
	Earth Observation	DLR
	Communication/ Navigation	DLR
	Space Science	DLR
	Research under Space Conditions	DLR
	Space Transport	DLR
	Space Technology	DLR
<b>Dr.-Ing. Christian Piehler, DLR</b>	<b>Transport</b>	<b>DLR</b>
	Terrestrial Vehicles	DLR
	Traffic Management	DLR
	Transport System	DLR