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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 1 & 2

- Research Field:** Biomedical research
- Key-words:** Molecular and cellular biology, structural biology, bioinformatics, biophysics, biochemistry, genomics, animal research
- Leibniz-Institute:**  Leibniz Institute for Age Research
Fritz Lipmann Institute (FLI)
- Leibniz Institute for Age Research - Fritz Lipmann Institute (FLI)**
<http://www.fli-leibniz.de>
- Position:** Doctoral Fellowships, Type A (preferred) or Type B
- Openings:** 2
- Department:** (any, depending on research interest and qualification of the applicant)
- Research Area:** Mechanisms of ageing and age-related diseases (specific projects depend on applicant)
- Specific Requirements:** Excellent knowledge of either German or English language (oral and written) is required; strong background in molecular biology methods;
- Work Place:** Jena; Germany
- Earliest Start:** May 2007
- Language Course:** None; working language at FLI is both German and English
- Further Information:** see web sites of respective FLI research groups; for further information, please directly contact the respective research group leaders



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 3

Research Field: Geophysics

Key-words: Applied Geophysics, Gravimetry or Electrical methods

Leibniz-Institute: 
Leibniz Institute for Applied Geosciences

Position: PostDoc Fellowship (2 years)

Openings: 1

Department: Seismics, Magnetism and Gravimetry or
Goelectrics & Borehole Geophysics

Research Area: Compilation of Bouguer anomaly maps, terrain reduction using digital elevation models, field transformations of Bouguer anomalies
or
Specific problems in application of DC resistivity methods and electromagnetics

Specific Requirements: Applicants should have experience in applied geophysics, in particular gravimetry or geoelectrics; outstanding record in scientific publication

Work Place: Hannover; Germany

Earliest Start: May 2007

Language Course: no

Further Information: www.gga-hannover.de/engl/index2.htm Research / Methodical works
/ Geochronology & Is. Hydrology



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 4

- Research Field:** Geochronology
- Key-words:** Luminescence or uranium-series (TIMS 230 Th/U) dating techniques
- Leibniz-Institute:** 
Leibniz Institute for Applied Geosciences
- Position:** Doctoral Fellowship (Type A or Type B)
- Openings:** 1
- Department:** Geochronology and Isotope Hydrology
- Research Area:** Geochronology in the field of luminescence dating techniques of aeolian or fluvial sediments – or in the field of uranium-series dating (TIMS 230 Th/U) of terrestrial carbonates including stable isotope geochemistry
- Specific Requirements:** Applicants should have experience in Quaternary geology, geography, physics and chemistry.
- Work Place:** Hannover; Germany
- Earliest Start:** May 2007
- Language Course:** German Language Course is possible (Cost: 2000 Euro)
- Further Information:** www.gga-hannover.de/engl/index2.htm Research / Methodical works / Geochronology & Is. Hydrology




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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 5

- Research Field:** Low-Temperature Plasma Physics
- Key-words:** Atmospheric Pressure Plasma Sources, Microplasmas, Plasma Diagnostics, Emission and Absorption Spectroscopy, Plasma Surface Treatment, Bio-Medical Applications
- Leibniz-Institut:**  Institut für Niedertemperatur-Plasmaphysik e.V.
www.inp-greifswald.de
- Position:** Doctoral Fellowship (Type A, PhD in Germany, max. 3 years)
- Openings:** 1
- Department:** Department of Plasma Radiation Techniques / Research Topic Plasma Sources
- Research Area:** project aim: basic analysis, design and optimization of microplasmas for atmospheric pressure surface treatment,
work packages: experimental setup of microplasmas and their diagnostics, spectroscopic diagnostics, study of basic plasma properties and chemical reaction kinetics, optimization of the design
- Specific Requirements:** basic experiences in experimental work and surpassing knowledge in atomic physics required, fluent in English and German as possible, good team work and flexibility required, first experiences in plasma physics, basic knowledge in electronics and high-frequency techniques as well as surpassing skills in computer handling desired
- Work Place:** Greifswald, Germany
- Earliest Start:** May 2007
- Language Course:** German Language Course is not included
- Further Information:** www.inp-greifswald.de



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 6

- Research Field:** Bioinformatics
- Key-words:** Molacular Biological Databases, Data Export, Web Service, Method Integration
- Leibniz-Institute:** 
Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung
Internet: <http://www.ipk-gatersleben.de>
- Position:** Postdoctoral Fellowship (one year)
- Openings:** 1 (see also attachment)
- Department:** Department: Cytogenetics and Genome Analysis/ Program: Genome Analysis/ Research Group: Bioinformatics
- Research Area:** Bioinformatics, Databases, Web Service, Data Integration
- Specific Requirements:** The project`s objectives require a Postdoc in Bioinformatics with special experience in:
Database concepts and technologies; Web service techniques
Biological database
XML processing
JAVA and Perl programming languages
UNIX operating systems
- Work Place:** Gatersleben; Germany
- Earliest Start:** March 2007
- Language Course:** German Language Course is not necessary. The common language in the lab is English.
- Further Information:** <http://www.ipk-gatersleben.de/en/02/04/02/10/>



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Fellowship - No. 6

Leibniz-DAAD-Stipendienprogramm 2007

Dr. Uwe Scholz

Cytogenetics and Genome Analysis/Genome Analysis/Research Group Bioinformatics

Homogeneous and Software-processable Publication of Bioinformatics Data and Methods

The Leibniz Institute of *Plant Genetics and Crop Plant Research (IPK)* is a leading institute in crop plant research. This results in several internationally published available databases and in-house developed software tools. This data and software are an important bioinformatics resource for the scientific community.

The maintenance and sustainability of this bioinformatics resource are important tasks of the IPK research group bioinformatics. Up to now, this was mainly realized by individually developed Web front ends and downloadable software. In order to increase the usability of these IPK resources for the international scientific community, this service has to be complemented with bioinformatics methods for a homogeneous and software processable access to IPK data and tools. Pre-research studies carried out at IPK confirm the need and advantages of an application of these techniques for making IPK's data and software tools publicly accessible. In particular, the positive impact on bioinformatics research at the IPK by embedding the institute into international bioinformatics resource networks should be emphasized. Examples for such networks are the „Virtual Plant Information Network“ (VPIN), the PlaNet network or the „Global Biodiversity Information Facility“ (GBIF). Thus, this scholarship focuses on the concrete implementation of such a service and should support the service activities of the bioinformatics groups at the IPK.

This service has to be implemented using standardized computer science and bioinformatics methods, like XML, Web Services, ontologies, semantic Web and database integration. The following goals have to be met:

1. Export of IPK data into XML files. As far as possible existing bioinformatics XML formats have to be supported. Additionally, the data access based on these XML files must be embedded into popular bioinformatics API like, BioJava or BioPerl, and into database integration systems, like the “Sequence Retrieval System” (SRS) and DBORA. This has to be accomplished by the implementation of suitable parser.
2. Supply of remote executable data access functionality, using Web Service technology, in particular the SOAP protocol.
3. Provision of remote executable access to software developed at the IPK, using Web Service technology, in particular the SOAP protocol.
4. Embedding into the above mentioned international bioinformatics resource networks using established bioinformatics Web Service repositories like BioMoby.



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 7

- Research Field:** Printable electronic materials
- Key-words:** Printable electronics; flexible electronics; transparent electronic materials; printable dielectrics, semiconductors and conductors
- Leibniz-Institute:** 
INM
Leibniz-Institut für
Neue Materialien
- INM – Leibniz Institut for New Materials gGmbH, Saarbrücken
URL: <http://www.inm-gmbh.de>
- Position:** Doctoral Fellowship Type A
- Openings:** 1
- Department:** Glass and optics
- Research Area:** Development of printable materials (dielectrics, semiconductors and conductors) based on nanocomposite formulations for applications in flexible electronic circuits, especially for photovoltaics and display applications; Development of suitable methods for characterization; Material optimization for printing processes.
- Specific Requirements:** Skills in synthetic inorganic and organic chemistry; background knowledge in solid state physics; knowledge in physical characterization methods; interest in materials and process development; interest in electronic materials. Able to work in an interdisciplinary team of chemists, physicists and engineers. Good communication skills in English or German; willing to learn German.
- Work Place:** Saarbrücken, Germany
- Earliest Start:** January 2007
- Language Course:** may be arranged individually
- Further Information:** <http://www.inm-gmbh.de>



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 8

Research Field: Material Science / Surface Science / Chemistry
Key-words: Chemical nanotechnology, optical coatings, functional materials, photocatalysis, refractive materials, chemical resistance

Leibniz-Institute:



INM – Leibniz Institut for New Materials gGmbH, Saarbrücken

URL: <http://www.inm-gmbh.de>

Position: Doctoral Fellowship – 3 years

Openings: 1

Department: FA1 – Glass and optics

Research Area: A vast field of innovative materials based on silanes is known. The intended project is seeking new coating materials based on an enhanced base of mainly oxidic materials, starting with titania. The examination of such new coating materials to determine their functionality and to determine the usability as a new material for e.g. industrial use is part of the project.

Specific Requirements: The applicant searched should have a background in chemistry (inorganic or physical chemistry) or materials science. He should be willing to do laboratory work in synthesis and application of coating materials together with analytical work as well as an ability to work in an interdisciplinary group. A willingness to take responsibility for some equipment is asked for. English or German should be spoken fluently.

Work Place: Saarbrücken, Germany

Earliest Start: January 2007

Language Course: may be arranged individually

Further Information: <http://www.inm-gmbh.de>



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 9

Research Field: III/V semiconductor devices
Key-words: GaN Optoelectronics, high power laser diodes, ultraviolet light emitting diodes and lasers
Leibniz-Institute: Ferdinand-Braun-Institut für Höchstfrequenztechnik www.fbh-berlin.de



**Ferdinand-Braun-Institut
für Höchstfrequenztechnik**

Position: Doctoral Fellowship (Type A, Promotion in Deutschland, max. 3 Jahre)
Openings: 1
Department: Optoelectronics; Group GaN Optoelectronics
Research Area: Design, fabrication and characterization of nitride based light emitting diodes and lasers; process technology development for advanced GaN-based laser diodes and LEDs; and characterization (dc and pulsed) of optoelectronic devices

Specific Requirements: Formal education with a masters degree (M.Sc.) in electrical engineering, materials science, or physics; a solid background in semiconductor device physics, particularly LEDs and laser diodes. Hands-on experience in semiconductor device processing (e.g. photolithography, wet and dry etching, metal and dielectric deposition) and optoelectronic device characterization would be desirable.

Work Place: Berlin, Germany
Earliest Start: March 2007
Language Course: German Language Course is possible
Further Information: http://www.fbh-berlin.de/english/prod/prod_2.shtml



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 10

- Research Field:** Semiconductor Physics and Technology
- Key-words:** *GaAs laser diodes with long emission wavelengths*
- Leibniz-Institute:** Ferdinand-Braun-Institut für Höchstfrequenztechnik (www.fbh-berlin.de)
-  **Ferdinand-Braun-Institut
für Höchstfrequenztechnik**
- Position:** *Doctoral Fellowship (Type A, Promotion in Deutschland, max. 3 Jahre)
Jahre)
or
Postdoctoral Fellowship*
- Openings:** 1
- Department:** *Materials Technology Dept.*
- Research Area:** *GaAs layer structures for laser diodes with emission wavelength > 1100 nm:
optimization of growth processes, characterization of layer structures
and laser diodes*
- Specific Requirements:** Masters degree (or diploma) (for doctoral fellowship) respectively PhD (for Postdoctoral fellowship) in physics or electrical engineering; experience in semiconductor physics, device technology or device characterization
- Work Place:** Berlin, Germany
- Earliest Start:** *March 2007 (or earlier)*
- Language Course:** German Language Course is possible
- Further Information:** www.fbh-berlin.de



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 11

Research Field: Semiconductor Technology, Materials Science
Key-words: *Semi-polar and non-polar GaN growth*
Leibniz-Institute: Ferdinand-Braun-Institut für Höchstfrequenztechnik www.fbh-berlin.de



**Ferdinand-Braun-Institut
für Höchstfrequenztechnik**

Position: *Doctoral Fellowship (Type A, Promotion in Deutschland, max. 3 Jahre)
Jahre)
or
Postdoctoral Fellowship*

Openings: 1

Department: *Materials Technology Dept.*

Research Area: *HVPE growth of thick GaN layers:
process development and layer characterization*

Specific Requirements: Masters degree (or diploma) (for doctoral fellowship) respectively PhD (for Postdoctoral fellowship)
in physics, materials sciences or crystallography;
experience in semiconductor physics and characterization,
semiconductor technology or crystallography.

Work Place: Berlin, Germany

Earliest Start: *March 2007*

Language Course: German Language Course is possible

Further Information: www.fbh-berlin.de



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 12

Research Field: Semiconductor Physics and Technology
Key-words: *AlGaIn-based UV-LEDs*
Leibniz-Institute: Ferdinand-Braun-Institut für Höchstfrequenztechnik www.fbh-berlin.de



**Ferdinand-Braun-Institut
für Höchstfrequenztechnik**

Position: *Doctoral Fellowship (Type A, Promotion in Deutschland, max. 3 Jahre)
Jahre)*
or
Postdoctoral Fellowship

Openings: 1

Department: *Materials Technology Dept.*

Research Area: *Development of LEDs in the UV spectral region:
device design, processing and characterization*

Specific Requirements: Masters degree (or diploma) (for doctoral fellowship) respectively
PhD (for Postdoctoral fellowship)
in physics or electrical engineering; experience in semiconductor
physics, device technology or device characterization

Work Place: Berlin, Germany

Earliest Start: *March 2007 (or earlier)*

Language Course: German Language Course is possible

Further Information: www.fbh-berlin.de



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Leibniz – DAAD – Fellowships 2006 / 2007

(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 13

Research Field: GaN based microwave power transistors especially MISFETs
Key-words: GaN, MISFET, microwave power transistor
Leibniz-Institute: Ferdinand-Braun-Institut für Höchstfrequenztechnik www.fbh-berlin.de



**Ferdinand-Braun-Institut
für Höchstfrequenztechnik**

Position: Postdoctoral Fellowship
Openings: 1
Department: Process Technology / Group Devices and Circuits
Research Area: GaN-based MISFETs for highly linear microwave power amplifiers in the frequency range from 2 to 12 GHz shall be developed with a special emphasize on the material technology of a suitable MIS-structure for practically dispersion free and robust high frequency operation
Specific Requirements: Required for the position is a university degree in electrical engineering, physics or a related subject and experience in semiconductor processing, device characterization and the ability to work in a project team. Experience in microwave devices and circuits would be appreciated.
Work Place: Berlin, Germany
Earliest Start: As early as possible
Language Course: German Language Course is possible
Further Information: http://www.fbh-berlin.de/english/kar/kar_1.shtml



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(The description was drawn up by the hosting Leibniz - Institute)

Fellowship - No. 14

Research Field: Biochemistry

Key-words: Protein Chemistry and Molecular Immunology

Leibniz-Institute:



Leibniz-Institut für Molekulare Pharmakologie, Berlin

Position: Doctoral Fellowship – 3 years

Openings: 1

Department: Protein Engineering

Research Area: Adaptor protein mediated signal transduction in immune cells. Based on our identification of binding profiles of adaptor domains (Kofler, M.,...Freund, C., 2004, 2005; Heuer, K.,...Freund, C. 2005, 2006) we are employing yeast-two-hybrid, Tap-tag technology and in vitro reconstitution to investigate the assembly of certain functional protein complexes important to immune cell function. Complementary, microscopic techniques and functional studies in conjunction with small molecule interference are intended to assess the relative contribution of individual interactions in vivo.

Specific Requirements: The candidate should have a strong background in protein biochemistry and a profound knowledge in molecular biology/immunology.

Work Place: Berlin, Germany

Earliest Start: January 2007

Language Course: may be arranged individually

Further Information: <http://www.fmp-berlin.de/freund>