Scholarship Program of the German State of North Rhine-Westphalia for students from Israel

Call 2016

Scholarship places
at institutions of higher education
in North Rhine-Westphalia

Please choose the scholarship place(s) you seek to apply for;
fill in the corresponding identification number (#) from the following list into the application form which you can download from
http://www.uni-duesseldorf.de/NRW-Nahost-Foerderprogramme
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Disciplines (multiple entries possible)

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<th>Disciplines</th>
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<td>Architecture / Art / Design / Photography</td>
<td>FH BI 2, FH BI 3, FHD 1, FHD 2, DS 3</td>
</tr>
<tr>
<td>Biology / Life Sciences / Geography / Environmental Science / Agriculture</td>
<td>BRS 1, BRS 2, DS 2, FZJ 3, FZJ 4, KL 2, KL 4</td>
</tr>
<tr>
<td>Business (Administration) / Economics</td>
<td>FH BI 1, HSRW 1, HSRW 2, HSRW 3</td>
</tr>
<tr>
<td>Chemistry / Chemical Engineering / Biochemistry / Pharmacy</td>
<td>BI 1, BC 1, FZJ 4, MFH 2</td>
</tr>
<tr>
<td>Computer Science / Informatics / Information Sciences</td>
<td>FZJ 2, FZJ 4, PB 3</td>
</tr>
<tr>
<td>Cultural Studies / Literature / Philology / Linguistics</td>
<td>DO 1, BC 1, DS 1, DS 4, KL 5, MS 2</td>
</tr>
<tr>
<td>Field</td>
<td>Institutes</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Educational Science / Didactics</td>
<td>DE 1, DE 2, WU 1, WU 3</td>
</tr>
<tr>
<td>History / Archaeology / Anthropology</td>
<td>BI 2, BC 3, BC 4, DS 3, DS 4, MS 1, KL 1, MS 2, SI 1</td>
</tr>
<tr>
<td>Law</td>
<td>KL 3, DS 5</td>
</tr>
<tr>
<td>Mathematics</td>
<td>FZJ 2, PB 2</td>
</tr>
<tr>
<td>Mechanical Engineering / Process Engineering / Material Engineering / Electrical Engineering / Biotechnology / Environmental Engineering</td>
<td>FZJ 1, FZJ 2, FZJ 5, MFH 1, PB 1, PB 3</td>
</tr>
<tr>
<td>Media Studies / Communication Science / Journalism / Film Studies</td>
<td>DS 6</td>
</tr>
<tr>
<td>Medicine / Health Sciences</td>
<td>BN 1, FZJ 3, KL 2, KL 4</td>
</tr>
<tr>
<td>Philosophy / Theology / Religious Studies</td>
<td>BI 2</td>
</tr>
<tr>
<td>Field</td>
<td>Institutions</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------</td>
</tr>
</tbody>
</table>
| Physics / Geophysics / Nanotechnology / Astronomy | • BC 1  
• BC 7  
• PB 4  
• BI 1  
• FZJ 1  
• FZJ 2  
• FZJ 4  
• MS 3  
• PB 2  
• WU 2 |
| Psychology / Cognitive Science / Neuroscience | • BC 1  
• BC 6  
• DS 2  
• DS 3 |
| Social Sciences / Sociology / Politics | • BI 2  
• BC 5  
• DO 2  
• DE 2  
• HSRW 1  
• HSRW 2  
• HSRW 3  
• WU 1 |
| Spatial Planning / Civil Engineering  | • FH BI 2  
• BC 2 |
Contacts and further information

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International Office
Universitaetsstrasse 1
D–40225 Duesseldorf
Germany
Dr. Anne Gellert
Phone: +49 (0)211 / 81 14107
Fax: +49 (0)211 / 81 11334
Email: nrw-scholarship@hhu.de
Bielefeld University (BI)

Bielefeld - the "university of short ways" and of "interdisciplinary intertwinemment"! Whereas elsewhere the departments and institutes are spread all over the city, Bielefeld has its entire university in one building. This way, students may even utilize their lecture breaks and peek into other classes or lectures. In the library, the sections of related departments, e.g., physics and chemistry are found right next to each other. Due to the compactness of the building, it could be equipped with a computer network, even traversing department boundaries, e.g., mathematics and physics, at an early stage. Nowhere else is interdisciplinarity practiced in this way; there's even a special-purpose Center for Interdisciplinary Research, "ZiF". In particular, the use of expensive equipment such as transmission electron microscopes is shared between the biology and physics departments, the math department's visualization lab is open to people of other disciplines, as well. Physicists and chemists closely collaborate in some laboratories. There is a joint study program called "Natural Sciences and Information Technology" in cooperation with the Technical Faculty. Young scientists come to Bielefeld from all parts of the globe to participate in our research activities. There exist close contacts with the research centers DESY at Hamburg and CERN (elementary particle physics) at Geneva as well as with BESSY (molecular and surface physics) at Berlin and ESRF at Grenoble, among others. There are a multitude of cooperations with research institutions and universities, domestic and foreign.

Bielefeld University offers the opportunity of taking a German language course at "PunktUm".

www.uni-bielefeld.de

Contact: Dr. Thomas Luettenberg, Dezernat III Head/ International Office Universitaetsstr. 25, D–33615 Bielefeld Phone: +49-(0)521/106-4088, E-mail: thomas.luettenberg@uni-bielefeld.de
# BI 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Physics</td>
<td>Prof. Dr. Armin Goelzhaeuser</td>
<td>2</td>
<td>Physics, Chemistry</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May – December

**Institute’s focal research areas**

- Supramolecular Physics, Chemical Nanolithography, Carbon Nanomembranes

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# BI 2

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Bursars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute for Science and Technology Studies (IWT)</td>
<td>Prof. Dr. Martin Carrier</td>
<td>1</td>
<td>Sociology, Philosophy, History</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** June – December

**Institute’s focal research areas**

- Science and Technology Studies; Philosophy of Science, History of Science, Public Understanding of Science;
- History, Philosophy and Social Studies of Science
Bielefeld University of Applied Sciences (FH BI)


Courses are mainly in German (language of instruction)

About 9,800 students (winter semester 2015/16) enrolled, including 240 international students.

German language courses for guest students are organized either within the faculty itself or in cooperation with a further education college or private language institute.

http://www.fh-bielefeld.de/

Contact: Patrick Staerke, Head of International Office, Bielefeld University of Applied Sciences,
Interaktion 1, 33619 Bielefeld, Germany
Phone: +49-521/106-7710
Fax: +49-521/106-7794
E-Mail: patrick.staerke@fh-bielefeld.de
# FH BI 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Business and Health, Department of Business</td>
<td>Prof. Dr. Uwe Roessler</td>
<td>3</td>
<td>Business Administration, Business Information Systems, Business Law, Business Psychology, International Studies in Management</td>
<td>B, M Teaching language: German/English (depends on the course) Working language: German and English Personal consultation by professors and teachers in English Papers can be written in English</td>
</tr>
</tbody>
</table>

**Time frame:** September 1\(^{st}\) – December 20\(^{th}\)

**Institute’s focal research areas**

The Faculty of Business and Health, Department of Business, focuses on General Business Administration, Information Systems, Law, Psychology, and International Studies in Management. There is no specialization in one specific research field.

The scholar should participate in our course programme and it is possible that he/she can work at a special subject in cooperation with one of our professors.

In the Department of Nursing and Health there would also be the possibility to work in the field of healthcare, nursing (practice), professional consulting and teaching in the instruction of healthcare professions as well as management of pedagogic institutions in the health care sector.
<table>
<thead>
<tr>
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<th>Discipline or subject area</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Architecture and Civil Engineering</td>
<td>Prof. Dr.-Ing. Johannes Weinig</td>
<td>7 for German speaking students</td>
<td>Civil engineering or architecture</td>
<td>B, M</td>
</tr>
</tbody>
</table>


**Institute’s focal research areas**
- classes only in German language:
  - Surveying methods and skills
  - Construction of plain light buildings (e.g. sports halls or stadiums)
  - Water engineering and water management
  - Micro- and ultra-filtration methods
  - Construction, Energy, Environment:
  - water engineering including water preparation,
  - energetic building restoration with alternative energy concepts
## # FH BI 3

<table>
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<tr>
<th>Institute</th>
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<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
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</thead>
<tbody>
<tr>
<td>Faculty of Design</td>
<td>Prof. Dr. Roman Bezjak</td>
<td>2</td>
<td>Photography and media Design and communications design</td>
<td>B, M Classes in German language Personal consultation by professors and teachers in English Papers can be written in English</td>
</tr>
</tbody>
</table>

**Time frame:** September – December 20\(^{th}\)

**Institute’s focal research areas**
- Photography and media
- Book design
University of Bonn (BN)

Rheinische Friedrich-Wilhelms-Universität, which belongs to the top Universities in Germany in terms of student’s enrolment with particular high international participation, of high quality scientific projects and publications, multifaceted teaching activities. Currently several interdepartmental and interfaculty curricula are involved in innovative educational programs such as “Application of Biotechnology in Medicine” which are open for further interdisciplinary and international co-operations supported by several national foundations and European Union. Since several years, the University of Bonn actively participate in bilateral exchanging programs with Israel. The accumulated experience for both sides is highly positive. The created scientific and personal contacts are of durable nature.

Students from Israel could be integrated in interdisciplinary and interfaculty projects as well as particular English spoken Bachelor or Master Curricula at the below listed institutes, which have pride of their ample interdisciplinary co-operations, long standing involvements in international co-operations and programs supported by reputed scientific laboratories and institutions in Israel e.g. Weizmann-Institute, several Centres of Excellence, “Technion” (Haifa).

www.uni-bonn.de

Contact:

Sandra Groeger
Poppelsdorfer Allee 53
53115 Bonn
E-mail: Sandra.groeger@uni-bonn.de
<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
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<tbody>
<tr>
<td>Department of Radiology Medical Faculty, Division of “Molecular / Experimental Radiology”</td>
<td>Prof. Dr. Olga Golubnitchaja</td>
<td>1</td>
<td>Early / Predictive molecular diagnostics, Targeted prevention, Individualised patient profiling, Personalised Medicine</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** August – October

**Institute’s focal research areas**

- Development of disease specific molecular markers for predictive diagnostics and personalized therapy;
- Application of clinical transcriptomics and proteomics;
- Expression profiling of human blood;
- Clinical evaluation of individual predisposition to breast cancer, leading causes of blindness, and chronic complications secondary to Diabetes mellitus type 2.
- Participation in the EPMA World Congress, September, EU-Parliament, Brussels, www.epmanet.eu
Ruhr-University Bochum (BC)

Ruhr University Bochum (RUB), about 41,000 students, 4,500 foreign students; modern and innovative university with a wide range of study courses and excellent research institutions, located in one of the most culturally interesting regions in the heart of Europe.

University homepage: www.rub.de
International Office: www.international.rub.de

German language courses start each October (winter term) and April (summer term) and are free of charge for all RUB students.

RUB homepage: http://www.rub.de/index_en.htm
International: http://international.rub.de/index.html.en

Contact: Ms. Jonna Haensel-Neumann
Ruhr-Universitaet Bochum
Studierendenhaus (SH), Raum 1/193
Universitätsstr. 150, D-44780 Bochum

Phone +49-234-32-25425,
Fax +49-234-32-14684,
E-mail: Jonna.Haensel@uv.ruhr-uni-bochum.de
# BC 1

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<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy of Language and Cognition or Mercator Research Group Structure of Memory</td>
<td>Prof. Dr. Markus Werning</td>
<td>2</td>
<td>Philosophy Linguistics Cognitive Science</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May-July, September-December

**Institute's focal research areas**
- Philosophy of Language and Mind, Epistemology, Semantics, Philosophy of Neuroscience and Psychology
- EEG, Computational Modelling

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# BC 2

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<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
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<tbody>
<tr>
<td>Chair for Tunnelling and Construction Management</td>
<td>Ivan Popovic, M.Sc.</td>
<td>2</td>
<td>Civil Engineering; Environmental Engineering; Geosciences; Chemistry</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** October - December (04.10.2016 – 23.12.2016)

**Institute's focal research areas**
- Soil conditioning for EPB and slurry shields, process simulation, influence of clogging on excavation tools, shotcrete laboratory experiments, tunnel safety, chemical and other processes during electrocoagulation
### BC 3

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute of Archaeological Science</td>
<td>Dr. Patric Kreuz</td>
<td>3</td>
<td>Archaeology of the Graeco-roman eastern Mediterranean / Near East; Phoenician archaeology</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** October-December

**Institute’s focal research areas**
- Jordan and the Decapolis in the Graeco-roman period;
- The Herodian kingdom;
- Archaeology of the Phoenician diaspora

### BC 4

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair for Ottoman and Turkish History</td>
<td>Prof. Dr. Markus Koller</td>
<td>2</td>
<td>Mediterranean History, Ottoman History</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** May - July; October - December

**Institute’s focal research areas**
The chair is dealing with Ottoman and Turkish History and has a special focus on the history of the Mediterranean, the Ottoman Balkans and the Ottoman-European relations between the 15th and 19th century. Besides we are very interested in the current Turkish foreign policy. Detailed information can be found under http://www.ort.ruhr-uni-bochum.de/).
# BC 5

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hans Kilian und Lotte Köhler Centrum für sozial- und kulturwissenschaftliche Psychologie und historische Anthropologie</td>
<td>Dr. Christian Gudehus</td>
<td>1</td>
<td>Social Science</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** September – December

**Institute’s focal research areas**

Possible Fields of Research
- Social and Cultural Psychology
- Social Theory
- Memory Studies
- Violence and Aggression Research
- Postcolonial and Gender Studies
- Qualitative Research Methods

Depending on the Qualification of the Applicant:
- Developing a research project for the Master/PhD Thesis
- Work on the Master/PhD Thesis
- Preparation of a research project (e.g., writing a proposal)
- Teaching
- A workshop/conference may be organized in advance and held during the applicant’s stay
### BC 6

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Neuropsychology</td>
<td>Prof. Dr. Boris Suchan</td>
<td>2</td>
<td>Neuropsychology, Cognitive Neuroscience</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** April – July; October - December

**Institute's focal research areas**

We have many research topics. We are interested in the processing of faces and bodies in the human brain. We are also interested in the involvement of the medial temporal lobe in the formation of long term memory and also in perception. As techniques, we are using EEG and fMRI. Please take a look at our homepage to get an impression of our research topics ([http://www.ruhr-uni-bochum.de/neuropsy/](http://www.ruhr-uni-bochum.de/neuropsy/)).

### BC 7

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute for Philosophy II</td>
<td>Prof. Dr. Tobias Schlicht Prof. Dr. James Wilberding</td>
<td>2</td>
<td>Theoretical Philosophy: Mind, Logic, Language, Epistemology Ancient Philosophy</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** May – December

**Institute's focal research areas**
The institute is specialized in Philosophy of Language, Mind and Science. It is also offering Logic and Epistemology and a program in Ancient Philosophy.
Bonn-Rhein-Sieg University of Applied Sciences (BRS)

The Bonn-Rhein-Sieg University of Applied Sciences (UBRS) was established in 1995 as a national university funded by the government. Traditionally, UBRS attracts applicants from the within its region, but the University has formal and informal cooperation agreements with more than 30 universities throughout the world.

UBRS specializes in business administration, natural sciences, computer science, social security management, technical journalism and engineering. The focus areas for UBRS are applied research and development, technology transfer using international and interdisciplinary approaches. There is an emphasis on internships and practical applications in industry and research and joint research projects with numerous companies and institutions.

As English or another foreign language is a required subject for all students, the university has established a central Language Centre which designs, coordinates and carries out foreign language instruction on all three campuses. These specific-purpose courses are taught predominantly by native speakers, and state-of-the-art IC technologies are often implemented, primarily through the use of new language labs and self-access centres in both Rheinbach and Sankt Augustin. Especially for foreign students, “German as a foreign language” is offered including the TestDaf Exam. Unfortunately, there is no possible participation at regular language courses, but there may be an intensive course for beginners in September.

The campuses in Sankt Augustin, Rheinbach and Hennef are well-equipped with modern laboratories, and technical equipment. UBRS has approximately 120 Professors of which many receive research grants. There are about 120 support staff including technical and administrative employees. UBRS currently has around 5500 students and the Department of Natural Sciences recruits about 200 undergraduate in Bachelor programs and about 30 students in a Master program each year in two study courses: Applied Biology (as an international study course) and Chemistry with Material Sciences (as an German study course).

www.h-bonn-rhein-sieg.de

Contact:
Sabrina Sadowski
Hochschule Bonn-Rhein-Sieg
Bonn-Rhine-Sieg University of Applied Sciences
International Office – Welcome Centre
Grantham-Allee 20
53757 Sankt Augustin
Germany
Tel +49 (0) 2241/865-671
Fax +49 (0) 2241/865-8671
E-Mail: Sabrina.sadowski@gmail.com
Institute | Contact at the institute | Number of places | Discipline or subject area | Scholars’ degree program (B = Bachelor; M = Master; P = PhD)
--- | --- | --- | --- | ---
Department of Natural Sciences | Prof. Dr. Edda Tobiasch | 2 | Biology | M

**Time frame:**
01 July or 01 August to November, 2016 any time period within this time frame is possible, but it must be at least 10 weeks.

**Institute’s focal research areas**
The work deals with stem cell differentiation and signal transduction.

**Overview:**
Recent progress in our understanding of stem cell differentiation and cell transplantation has opened new therapeutic avenues in the treatment of human diseases involving chronic or acute tissue-specific cell loss. Consequently, experimental cell replacement strategies have been attempted involving adult stem cells with the aim of developing therapies.

Human mesenchymal stem cells which are isolated from adipose tissue have the advantage of potential autologous transplantation ability. There is evidence that they can be differentiated in chondrogenic, osteogenic, adipogenic and myogenic lineages. Inductions of the cells into multiple mesenchymal lineages already resulted in the expression of several lineage-specific genes, proteins and specific metabolic activity.

We aim at investigating fat-derived MSC, as potential donor cells, for their ability to differentiate in the osteogenic and beta cell direction for future treatment of diabetes and large bone defects and in the adipogenic direction to investigate the influence of the differentiating fat cell in the development of atherosclerosis.

In another project ecto-mesenchymal stem cells derived from dental follicles of wisdom teeth are used to improve dental implant stability.

The last study involves Hox genes for the characterization of stem cells derived from various human body parts during differentiation.

More information on the subjects can be found on the homepage:
http://fb05 fh-bonn-rhein-sieg.de/tobiasch.html
The work encompasses the following topics for potential scholarship holder:

- Differentiation and characterisation of adult, human mesenchymal stem cells
- Determination of the role of the differentiating adipocyte in the pathogenesis of diabetes mellitus type 2
- P2 and Hox signalling in human stem cells
- Biocompatibility testing of nano-structured polymers as scaffolds for 3D tissue engineering
- Stem cell interaction with natural and artificial scaffolds

The group is composed of the lab leader, a scientist, two PhD students, and several Master- and Bachelor students working on their theses. One of the PhD students will take care for the guest student.
<table>
<thead>
<tr>
<th>Institute</th>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Natural Sciences</td>
<td>Prof. Dr. Margit Schulze</td>
<td>1</td>
<td>Organic and Polymer Chemistry</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:**
June, July or August to 15th of October, 2016 any time period within this time frame is possible, but at least 8 weeks

**Institute’s focal research areas**

**The work deals with:**

- a) development of polymer scaffolds for stem cell differentiation and proliferation
- b) development of polymers used in regenerative medicine (tissue engineering and drug release)
- c) development of polymeric materials from renewable resources (biomass)

**The work encompasses the following topics for potential scholarship holder:**

- Synthesis of appropriate polymers (e.g. biopolymers such as microspheres and hydrogels)
- Characterization of polymer structure
- Surface modification / functionalization
- Bioactivation of the scaffolds (e.g. ligand coupling)

Biocompatibility testing theses. One of the PhD students will take care for the guest student.
The TU Dortmund University was established in 1968 and comprises 16 Faculties, Collaborative Research Centres, Graduate Schools & Graduate Colleges, and a number of affiliated institutes as well as other associated and science institutes like Fraunhofer Institutes-and the Max Planck Institute for Molecular Physiology (MPI) The number of students in the fall term WS15 /16 amounted to slightly more than 33,500. The staff consists of 350 professors, 1,900 academics and about 1,300 non-academic staff.

The TU Dortmund University supports interdisciplinary cooperation between its fields of study. To combine and analyze the strengths and activities a program of thematic "research bands" has been developed. The “bands” allow cross-referencing beyond the bounds of single departments, faculties and disciplines.

The TU Dortmund University has set itself an ambitious goal: research, teaching and courses of study are to be given an even more consistently international orientation over the coming years. In addition to its integration within the region, with all its structural changes, the university is deliberately focusing on a second aspect: Within the scope of a comprehensive network of international university partnerships and research co-operations, the TU Dortmund University will strengthen its position among the global players in the field of science.

The university already offers extensive support measures for foreign students. With the regular orientation program "Come2Campus", the Office for International Relations helps international “freshmen” to cope with the new living and learning conditions. Together with the city of Dortmund, the university strives to improve the services provided for foreign students.

A further way of improving the general conditions for successful completion of courses of study for international students is to increase the number of lectures held in English. Building the network connecting the TU Dortmund University with partner institutions in Europe and all over the world has been a priority for decades. A huge number of co-operations among students, academics, institutes and departments, as well as world-wide university partnerships, opens up global thinking for the region and makes the university's achievements and competence available to the scientific community worldwide.

Please notice: there are no language courses available this year.

International Office
Dr. Barbara Schneider
Emil-Figge-Str. 61, 44227 Dortmund
0231-755 6350, barbara.schneider@tu-dortmund.de
# DO 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department for English and American Studies</td>
<td>Prof. Dr. Walter Gruenzweig</td>
<td>1</td>
<td>American Studies; Cultural Studies and related fields</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** October – December

**Institute’s focal research areas**


---

# DO 2

<table>
<thead>
<tr>
<th>Institute</th>
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<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Philosophy and Political Science</td>
<td>Prof. Dr. Christoph Schuck</td>
<td>2</td>
<td>Political Science, Social Sciences and Humanities</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** Starting 2 May until end of July 2016

**Institute’s focal research areas**

- International Relations, Peace and Conflict Studies, Political Theory, Middle East, EU-Arab Relations, EU-Israel Relations.
Dortmund University of Applied Sciences and Arts (FHD)

Fachhochschule Dortmund - University of Applied Sciences and Arts was officially founded in 1971. Dortmund University of Applied Sciences and Arts is an academic institution with 13500 students and more than 200 professors. It is the largest University of Applied Sciences in the Ruhr District. Studies contents focus on solving practical problems and performing tasks encountered in daily applications, with experienced professors ensuring a sound relationship between theory and practice. At present more than 13600 students are registered with the University of Applied Sciences and Arts of Dortmund. In all courses of studies the internationally recognized Bachelor and Master degrees are awarded.

Faculties at the Fachhochschule Dortmund –University of Applied Sciences and Arts are:

- Architecture
- Design
- Information Technology and Electrical Engineering
- Computer Science
- Mechanical Engineering
- Social Sciences
- Business

Contact: Mrs. Aleksandra Wojciechowska

Telefon: 0231/ 9112-8130

Email: aleksandra.wojciechowska@fh-dortmund.de

Under certain conditions there may be a possibility to attend German courses offered by FH Dortmund in cooperation with the Auslandsgesellschaft Intercultural Academy GmbH (Dortmund).
Institute | Contact at the institute | Number of places | Discipline or subject area | Scholars’ degree program (B = Bachelor; M = Master; P = PhD)
--- | --- | --- | --- | ---
Design | Prof. Lars Harmsen | 4 | Communication Design | B


**Institute’s focal research areas**

The Bachelor of Communication Design offers a contemporary, practical and application-oriented project studies with the possibility to focus dial and treats all major metier of communication design as well as its specific requirements and tasks. The curriculum takes into account the dynamically developing challenges of media practice and provides theoretical, methodological and practical skills for visualization and mediation of content in the context of art, culture, science, economy and ecology.

The teaching is carried out partly in the context of intra-institutional projects and in cooperation with the other BA programs of the department, partly in cooperation with institutions and companies outside the university. Particular emphasis is placed on cooperative communicative process, at national and international exchanges as well as to the consideration of gender aspects in all respects.

The excellent staff and equipment of the program allows for a variety of specialization - for instance in the fields of books and editorial design, typography, Corporate Design & Communication, Interaction Design, Illustration or Social Graphic Design.

The study of the 7-semester Bachelor program KOMMUNIKATIONSDESIGN concludes with the examination for Bachelor of Arts.

For further informations:
http://www.fh-dortmund.de/de/fb/2/studium/studiengaenge/kommunikationsdesign_ba/index.php
and
http://sugarscroll.de/
<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Prof. Jörg Winde</td>
<td>2</td>
<td>Photography</td>
<td>B</td>
</tr>
</tbody>
</table>


**Institute’s focal research areas**

The photography bachelor programme focuses specifically on the aspect of media. Students acquire the technical competence to successfully work as photographer, photo designer and/or in an instructional field of work. The programme is oriented towards professional practice and conveys comprehensive knowledge on the production, distribution and reception of the medium of photography.

While the first two semesters cover the basics in media and creative work, the second part of the programme features six different fields of specialisation: photojournalism, advertising photography, editorial photography, documentary photography, artistic-conceptual photography and new media.

The scientific subjects provide multifaceted insights into theories on art, media and design. The workshops are equipped with state-of-the-art photo equipment and enable a contemporary digital workflow from the moment a picture is taken to the final print. The programme is especially directed at applicants who already possess basic knowledge in photography and would like to acquire substantiated qualification in the various occupational fields of image production, image placement and image usage.

The PHOTOGRAPHY bachelor program me lasts 7 semesters and is completed with an exam for the Bachelor of Arts degree.

For further information: http://www.fh-dortmund.de/de/fb/2/international/studies/photography.php
Even though the French emperor Napoleon I planned to found a university in Duesseldorf in 1811, with the Rhine area being thought of as an intellectual buffer zone between France and Prussia, Duesseldorf had to wait one more century. In 1907 the Duesseldorf Academy for Applied Medicine was founded and opened together with the newly-built Municipal Hospital, which was at that time the most modern clinical complex in the German Empire. Since the Academy had no university constitution, it was only allowed to instruct medical trainees, not students. The academy itself and part of the population launched several initiatives to change the status of the institution. In 1923 they finally succeeded when a university constitution including the right to train students was given to the Medical Academy of Duesseldorf. The study of dental medicine was subsequently incorporated, and by 1935 even doctoral degrees could be awarded in Duesseldorf.

After World War II the federal state of North Rhine-Westphalia and the City of Duesseldorf signed a contract which stated that the federal state would take over the Medical Academy, while the hospitals remained municipally owned. The Medical Academy became the University of Duesseldorf in November 1965, and in January 1966 it became a university with a medical faculty and a combined faculty of arts and natural sciences. In December 1988 the university senate decided to change the institution’s name to Heinrich-Heine University Duesseldorf, in commemoration of one of the city’s most renowned sons whose critical and inquisitive, poetic mind reached out across national borders and fought against small-mindedness.

Today the university forms the backbone of Duesseldorf’s academic reputation. Faced with nation-wide cuts in university spending, the University of Duesseldorf has continued to thrive. Despite its recent foundation it has gained the reputation usually associated only with universities rich in age and tradition. The university’s continuous development has made it home to a distinguished range of subjects, including medical science, natural sciences, economics, law, and the humanities. The degree requirements allow for numerous combinations of subjects, and study programs can be tailored to fit individual needs. Some subjects, such as Literary Translation, Yiddish Culture, Language and Literature, and Media Science, are unique features of our curriculum. Further specialties in the Faculty of Arts include Modern Japan Studies, and German as a Foreign Language which address the needs of the international business community. The Faculty of Economics focuses particularly on International Management. European and International Law enjoy an elevated position at the Faculty of Law, which is also a renowned center of commercial law. Duesseldorf has also become a hub of Biotechnology. The focal points of research within the Faculty of Mathematics and Natural Sciences are Genetics and Molecular Biology.

The Faculty of Medicine has gained a reputation for its research in Cardiology; Cell and Gene Therapy form the backbone of clinical research. The Center of Biomedical Research (BMFZ) stands out as a center of excellence. Several institutions devoted to special fields are attached to the university, for example the Institute of Diabetic Research, and the Medical Institute for Environmental Hygiene. The Institute for International Communication is also located on campus.

Ample proof of the confidence that sponsors place in the research conducted at HHUD can be seen in the number of collaborative research centers and research training programs. The
University of Duesseldorf ranks 18th among the top 45 universities (113 in total), which together receive 90% of all project funds granted in Germany.

The university's international profile is the result of the active exchange programs it maintains with partner universities in regions as diverse as California and Peking, Reading and Naples. In any given year, about 3000 foreign students come from more than 110 nations, and over 120 guest academics conduct their research here. The total number of students amounts to approximately 25000. The number of faculty exceeds 1500.

Last but not least, the university has the advantage of occupying a pleasant site. After long hours of study it is tempting to take a stroll through the Botanical Garden located right on campus....

www.uni-duesseldorf.de

Contact: Monika Lent-Oeztuerk (Mrs.)
Heinrich-Heine-Universitaet Duesseldorf
International Office (Building 21.02)

Universitaetsstraße 1, D–40225 Duesseldorf
Phone: +49-(0)211/81-10726
E-mail: exchange-students@hhu.de
# DS 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department for Yiddish Culture, Language, and Literature</td>
<td>Prof. Dr. Marion Aptroot PD Efrat Gal-Ed</td>
<td>3</td>
<td>Yiddish (including interdisciplinary studies)</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** April – July or September - December

**Institute’s focal research areas**
- Yiddish: Yiddish Language, Yiddish Literature and Culture, Yiddish Linguistics

# DS 2

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Institute of Neurobiology Faculty of Mathematics and Natural Sciences</td>
<td>Prof. Dr. Christine R. Rose</td>
<td>2</td>
<td>Biology/Neurosciences</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** ideally June + July, other periods are possible

**Institute’s focal research areas**
- Our main focus is cellular neurophysiology. We study the function of the vertebrate nervous system, employing the mouse brain as a model system for investigation of the molecular and cellular basis of neurological and neurodegenerative disease (e.g. epilepsy, spreading depression, ischemia/anoxia). Main techniques used are tissue slices of the mouse brain, electrophysiology and detection of ion dynamics.
<table>
<thead>
<tr>
<th># DS 3</th>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Department of Art History</td>
<td>Prof. Dr. Andrea von Hülsen-Esch</td>
<td>1</td>
<td>Medieval Art History; Jewish Art; Art Market Studies</td>
<td>M</td>
</tr>
<tr>
<td>Time frame:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>May - July</td>
</tr>
<tr>
<td>Institute’s focal research areas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Jewish Culture in Europe at the Beginning of the 20th Century; Jewish Artists in the Rhineland 1880-1930, Medieval Art History (Materiality, Art treasuries, Book illumination).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># DS 4</th>
<th>Institute</th>
<th>Contact at the institute</th>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Institute for Jewish Studies</td>
<td>Prof. Dr. Stefan Rohrbacher</td>
<td>1</td>
<td>Jewish Studies; History (English language)</td>
<td>B, M</td>
</tr>
<tr>
<td>Time frame:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Summer term 2016 (May – September)</td>
</tr>
<tr>
<td>Institute’s focal research areas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Jewish history of the early modern period, 19th century; German-Jewish History; History of Antisemitism</td>
</tr>
</tbody>
</table>
## Institute

**Chair for Civil Law, German and International Corporate, Business and Competition Law**

**Professor Dr. Christian Kersting**

**Denis Schuetz**

**Number of places**: 1

**Discipline or subject area**: Law

**Scholars’ degree program**

(B = Bachelor; M = Master; PhD)

| Chair for Civil Law, German and International Corporate, Business and Competition Law | Professor Dr. Christian Kersting | 1 | Law | M |

**Time frame:**

Summer term 2016 (May – September)

**Institute’s focal research areas**

The research focus lies in the field of German and European Competition and Corporate Law. Most publications are in German, some in English.

The applicant should intend to use the scholarship to further his/her own research project which should be in the field of the chair’s research focus. Therefore, the applicant is asked to present his/her research project in an exposé. The exposé should contain an overview of the research project and answer the question how German or European law has an impact on the issue. Also, the applicant should explain in how far a visit at the chair would promote the research project.

The applicant will have the opportunity to present his/her research project, to discuss it at the chair and to be given guidance as to questions of German and European law. Nevertheless, it will in principle be expected that the applicant will work on his/her research project independently. It may also be possible for the applicant to become involved in research projects conducted at the chair.
# DS 6

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media and culture studies</td>
<td>Univ.-Prof. Dr. Reinhold Görling</td>
<td>3</td>
<td>Media, culture and film studies</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**

Transitional Justice, Working Through of Troubled Pasts in Film and Theatre, Film Studies.
Rhein-Waal University of Applied Sciences (HSRW)

Rhein-Waal University of Applied Sciences (HSRW), Cleves, Germany. HSRW has 4 Faculties, Technology and Bionics, Life Sciences, Society and Economics, Communication and Environment.

Intensive German as a foreign language courses at various levels are offered in the semester holidays.
German as a foreign language courses are offered during the semester from absolute beginner to advanced learner (B2.2.) levels.
German as a foreign language courses are only open to students of the Rhein-Waal University of Applied Sciences. It is not necessary to register for courses.

Contact:
Dr. Joost Kleuters, Head of International Office
Marie-Curie-Str. 1, 47533 Kleve
joost.kleuters@hochschule-rhein-waal.de
02821 80673-140

# HSRW 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Society and Economics</td>
<td>Prof. Dani Kranz</td>
<td>1</td>
<td>Social and Economic Sciences</td>
<td>B, M</td>
</tr>
</tbody>
</table>

Time frame: May - December

Institute’s focal research areas
Migration, policy, comparative social aspects of law and policy, inter-ethnic relations, ethnography/anthropology
### # HSRW 2

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Society and Economics</td>
<td>Prof. Gregor van der Beek</td>
<td>1</td>
<td>Social and Economic Sciences</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**

Finance and Economics

### # HSRW 3

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Society and Economics</td>
<td>Prof. Oliver Serfling</td>
<td>1</td>
<td>Social and Economic Sciences</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**

Micro-economics and developmental aid
University of Duisburg-Essen (DE)

Creative inspiration between the Rhine and Ruhr: the University of Duisburg-Essen (UDE) is located in the European region with the highest density of institutions of higher learning. Created in 2003 by the merger of the universities of Duisburg and Essen, the UDE is the youngest university in North Rhine-Westphalia and one of the ten largest universities in Germany. Both campuses are easy to reach and offer some 37,000 students a broad academic spectrum with an international orientation – ranging from the humanities and social sciences to economics and the engineering and natural sciences, including medicine. Students from 130 countries are currently enrolled at the UDE.

In many disciplines the UDE ranks amongst the TOP 10 of German research universities. Over the past three years, research income has risen by 150 %, a development which is also thanks to the five main research areas: Nano sciences, Biomedical Sciences, Urban Systems, Empirical Research in Education, and Change of Contemporary Societies.

www.uni-duisburg-essen.de

For free German classes in preparation for one’s studies see:
www.uni-due.de/international/deutschkurse.shtml

Contact:

Petra Günther
Tel:+49-(0)201-1832068
Petra.guenther@uni-due.de

Simone Müller
Tel.: 0203-379 1062
Email: simone.mueller@uni-due.de
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Faculty of Educational Sciences</td>
<td>Prof. Dr. Kerstin Göbel</td>
<td>1</td>
<td>Education, Educational psychology, Instructional research</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**

Instructional research, acculturation in schools, intercultural learning
<table>
<thead>
<tr>
<th>Institute</th>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Adult and Civic Education - Faculty of Educational Sciences</td>
<td>Friederike Lorenz &amp; Tim Zosel Prof. Helmut Bremer &amp; Prof. Fabian Kessl</td>
<td>1</td>
<td>humanities, sociology, education</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May – September 2016

**Institute’s focal research areas**

Appreciated is profound knowledge in at least one of the following subjects: the education system of Israel, Holocaust education in Israel, adult and civic education in Israel, the different social groups in Israel.

You will be working in Essen in our Department of Adult and Civic Education. We are researching and teaching with a special focus on participation in adult and civic education, social and political exclusion, theories of civic/citizenship education, theory of practice and social inequality (Bourdieu), and learners who are excluded from formal education.

We would like to support you in your project and exchange ideas regarding our common topics of research. Furthermore, we offer you to join us in our work on applications and projects, especially regarding Israel and Israeli-German relations. You will be able to join our seminars, get to know our faculty and university, and bring in your own perspective. We look forward to welcoming you here in Essen.

Required language: English
# DE 3

<table>
<thead>
<tr>
<th>Institute</th>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
</table>
| Department of Neurology  
   Experimental Neurology | Prof. Dr. Dagmar Timmann | 2 | Neuroscience, Neuropsychology, Biomechanics | B, M |

**Time frame:**
12 weeks within May – December

**Institute’s focal research areas**
Clinical Neuroscience; Physiology and pathophysiology of the human cerebellum; Behavioural studies in patients with cerebellar disorders; Structural and functional MRI in patients and controls.

Projects will be on reach adaptation in cerebellar disease and studying the effects of transcranial direct-current stimulation (tDCS) on cerebellar deficits; Projects will be done in collaboration with Prof. Opher Donchin, Department of Biomedical Engineering and Zlotowski Center for Neuroscience Ben-Gurion University of the Negev.
Research Center Juelich (FZJ)

Forschungszentrum Jülich works towards comprehensive solutions for the grand challenges facing society in the future in the three fields of energy and environment, brain research and information technology, thus laying the foundation for future key technologies. We provide impetus and are engaged as a partner throughout the entire value-adding process of research from basic research up to actual innovations. We focus our expertise programmatically and break new ground in strategic partnerships with universities, research institutions and industry. We intend to demonstrate that our research findings, our operation and utilization of complex infrastructures, and also our management achievements are among the best in the world. We regard the creativity and motivation of our staff as the greatest asset of our research centre, we therefore offer equal opportunities and encourage training and further professional development.

Forschungszentrum Jülich is located near the town of Jülich, close to the university cities Aachen, Bonn, Cologne and Düsseldorf. The proximity of Jülich to the Netherlands, Belgium and Luxemburg as well as about 1000 international guest scientists per year from 39 countries per year add to an excellent and inspiring training environment.

German language courses are organised in the context of our in-house training programme and are free of charge.

Contact:

Gabriele Weiland
Corporate Development (UE)
Forschungszentrum Jülich GmbH
D-52425 Jülich, Germany
Phone:+49 – (0)2461 – 61.3388
e-mail:g.weiland@fz-juelich.de
Central Institute of Engineering, Electronics and Analytics (ZEA)
ZEA-1- Engineering and Technology

Dr. Ghaleb Natour
1
Mechanical engineering; Material Science; Physics
M

Time frame:
End of August - end of November

Modern research requires technically sophisticated experimental facilities, expensive laboratory instruments and complicated measuring techniques. The institute part “Engineering and Technology | ZEA-1 of the Central Institute for Engineering, Electronics and Analytics| ZEA develops and builds technical equipment, instruments, setups and processes on a high level as an important contribution to successful scientific cutting-edge research. More than 150 people, mainly engineers, scientists and technicians are working closely together with the researchers of our scientific partner institutes, and with the other institute parts “Electronic Systems” and “Analytics” of ZEA.

For the participants of the NRW Scholarship Program for students from Israel, Palestine, and Jordan ZEA-1 offers the following internships:

Thermal image processing for carbon-based material analysis

A modern support structure of particle detectors fulfills a variety of tasks. Essentially the stability and the dimensional accuracy of a detector system are ensured by the support structure. In addition to static tasks more demands are placed, for example, the cooling of detectors and front-end electronics. At the same time the detected particle flow should be unaffected by structural materials. To satisfy all these requirements, at ZEA-1 modern support structures are developed, made of new materials, coupled with an intelligent construction design. Quality inspection is done with active thermographic methods, which allows a non-destructive testing of carbon-based fiber composites. An important factor to detect material defect is the thermographic image analysis.

During the internship the following tasks has to be done: Assembling of an active thermographic reference experiment with pulse and periodic excitation sources. For each pulse...
excitation, time depending cooling curves should be calculated for all pixel queues. All pixel based cooling functions should be compared with each other, concerning the classification of defects. During periodic excitation a FFT algorithm should be used to calculate the amplitude and phase of the temperature function for each pixel queue, in consideration of defect finding. Finally both methods are to be compared.

Strength evaluation of glass-ceramic joints for high temperature applications

Solid oxide fuel cells (SOFC) are energy conversion devices for an efficient and clean production of electricity. The aggregates need to be sealed gas-tight and electrically insulating by a glass-ceramic sealant. Unfortunately the insufficient strength often is a problem for the operation of SOFC stacks.

Latest investigations of ZEA-1 have shown that tensile strength measurements can be improved by an adaptation of component geometry of the glass-ceramic joints. The preparation of samples and evaluation of the improved toughness method is the main focus of the scholarship. In further experiments, the influence of different operation conditions like increased temperatures, cyclic and long term ageing of the joints have to be investigated.

Basic studies on the use of a laser with wavelength 532 nm when welding highly reflective metals

Laser welding with Nd: YAG lasers can be used only limited when processing highly reflective metals such as copper, gold and silver. The high reflectance of about 96% at the wavelength of 1064 nm not only leads to a poor and uncontrollable coupling of the laser beam into the material, but also often for destroying laser components.

One way this problem to defuse it is to use a laser beam source with a shorter wavelength. In practice this should come with half the wavelength of 532 nm (“green laser”) by frequency-doubled laser beam sources. First sources with power ratings above 100 W are now for the first time commercially available. The applications for this new laser sources to highly reflective materials in scientific apparatus to be determined as part of a practical study. For this purpose, a green laser will be installed with 400 W beam power in the new research laboratory, Laboratory for measurement and testing in joining technology, (LabMeF) of ZEA-1. The laser / material interaction will be investigated by means of welding applications and metrological detection.
<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute of Neuroscience and Medicine, Molecular Organization of the Brain</td>
<td>Prof. Andreas Bauer Dr. Simone Beer</td>
<td>1</td>
<td>Physics, Mathematics, Biomedical Engineering, Computer Science</td>
<td>B, M</td>
</tr>
<tr>
<td>Institute’s focal research areas</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Institute</td>
<td>Contact at the institute</td>
<td>Number of places</td>
<td>Discipline or subject area</td>
<td>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</td>
</tr>
<tr>
<td>-----------</td>
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<td>-----------------</td>
<td>---------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Institute of Neuroscience and Medicine, Molecular Organization of the Brain, INM-2 | Prof. Andreas Bauer  
D. Elmenhorst  
Dr. T. Kroll | 1 | Medicine / Health Sciences; Biology Psychologie | B, M |

**Time frame:** Presumably starting mid of August 2016

**Institute’s focal research areas**

Why do we need to sleep and what are the regulating mechanisms behind the sleep-wakefulness cycle? Which factors influence synaptic plasticity and how is neureceptor expression influenced in neuropsychiatric diseases? These questions describe the main research interests of the hosting institute.

The putative scholar will participate in a preclinical or clinical imaging project addressing varying (e.g. within the 24 hrs day-night cycle) or altered (e.g. in states of disease) neureceptor expression.

In technical terms we use radioactive labeled tracers and positron emission tomography (PET) to visualize distinct molecules and molecular mechanisms in a living organism. Modeling of pharmacokinetic processes and quantitative analysis of data ascertain an optimal usage of PET in preclinical and clinical research.

PET is multi-disciplinary, so that the scholar has the opportunity to experience collaborative research and teamwork among various disciplines from chemistry, physics, engineering and mathematics to biology and (pre)clinical research.

The hosting group “Molecular Neuroimaging” comprises four physicians, two physicists, a biologist, two chemist, a pharmacologist and several technicians. Currently, the working group operates a combined PET, CT and SPECT scanner for small animal imaging as well as laboratory facilities for in vitro techniques (e.g. autoradiography) and extensive analytical processes as parts of PET imaging studies. Clinical PET and MRI scanners are available as well.

Depending on the duration of the scholarship, the student will be
involved in PET imaging procedures and concomitant experiments (e.g. electro-encephalography or in vitro experiments) as well as data analysis.

More information is available at the institute’s webpage (http://www.fz-juelich.de/inm/inm-2/EN/Home/home_node.html) or via email to d.elmenhorst@fz-juelich.de

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Institute of Complex Systems, Theoretical Soft Matter and Biophysics

Dr. Thorsten Auth

1

Physics, Chemistry, Biology, Computer Science

B, M

Time frame: 2 May to 30 November 2016

Institute’s focal research areas

The student will perform numerical calculations to study interface-mediated interactions between particles: this can either be interactions of particles at liquid-gas interfaces or interactions of particles that are attached to lipid-bilayer membranes. Our main interest are membrane-mediated interactions that are particularly important from a biological point of view. Examples are viral budding, the entry of parasites into a cell, and the interaction of nanoparticles bound to cell membranes.

From a technical point of view, both systems are closely related and can be investigated using triangulated surfaces. We will employ the program package „Surface Evolver“, therefore knowledge of a programming language is not required, but can be helpful. However, basic knowledge of Linux, bash scripting, as well as of a plotting program such as gnuplot are necessary prerequisites. The details of the project and the work plan for the student will be adjusted according to the area of study of the applicant.
<table>
<thead>
<tr>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute of Bio- and Geosciences, Agrosphere, IBG-3</td>
<td>Prof. Dr. Johan Alexander Huisman</td>
<td>1</td>
<td>Environmental Engineering</td>
<td>M</td>
</tr>
</tbody>
</table>

**Institute’s focal research areas**

Non-invasive geophysical methods are increasingly being used within the context of contaminated site remediation. A method that is receiving increasing interest in this context is Spectral Induced Polarization (SIP) and its imaging extension called Electrical Impedance Tomography (EIT). The Agropshere institute (IBG-3) within the Forschungszentrum Jülich GmbH has extensive experience with the development of SIP and EIT measurement equipment. In previous research, this equipment has been used to understand the geophysical signature of unsaturated soils contaminated with non-aqueous phase liquids and to monitor the transport and delivery of goethite nanoparticles after injection during enhanced bioremediation of a contaminated aquifer.

Within the context of this stipend program, we are looking for candidates interested in applying SIP and EIT measurements within the context of contaminated site remediation. Possible topics are:

- SIP signals of heavy metal contaminated soils
- EIT monitoring of iron nanoparticle transport in porous media
- SIP signature of biofilms

**Contact person in Israel:**

Alex Furman <afurman@technion.ac.il>
University of Cologne (KL)

The University of Cologne was founded in 1388 and is one of the oldest and largest universities in Germany. The six faculties offer students a wide range of subjects as well as a great variety in choice and combination of courses and disciplines. The University of Cologne is popular not only due to the diversity of academic opportunities but also to the unique atmosphere of Cologne itself. Also by tradition, the university is internationally oriented and cooperates closely with people and institutions worldwide. The internationalization of teaching and research can be seen through joint programs with universities and colleges from abroad, double degree programmes, graduate schools, summer schools, short-time programmes, the binding of the (German and international) alumni. An important aspect of the strong international position of our university is the recruitment of qualified international students. Students who expect and fulfil high standards at the university, will find best studying conditions here.

In 2012, the University of Cologne was distinguished by the German Excellence Initiative, and now belongs to the small group of elite universities in Germany.

The University of Cologne offers German language courses for international students. They are taught by our German as a Foreign Language Department. For the target group of this programme we would recommend the participation in the pre-semester intensive language courses which take place in March respectively September. These courses are offered also for beginners’ level, their duration is of 3 to 4 weeks; in case of successful completion participants can obtain credit points.

The registration for the course takes place through the International Office of the university.

www.uni-koeln.de

Contact: Dr. Stefan Bildhauer (Mr.), Director of International Affairs
          Daniela Simut (Ms.)
          Nicole Conde (Ms.)
          Tel.: 0221-470-2382, -1340, -7946

          s.bildhauer@verw.uni-koeln.de
          d.simut@verw.uni-koeln.de
          n.conde@verw.uni-koeln.de
# KL 1

<table>
<thead>
<tr>
<th>Institute</th>
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</tr>
</thead>
<tbody>
<tr>
<td>History Seminar</td>
<td>Prof. Dr. Werner Eck</td>
<td>2</td>
<td>Classics-Ancient History – Jewish Studies</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** Mai-September

**Institute’s focal research areas**

Preferred are people who study Ancient History from the 1.c.BC to the 7 c. AD. Welcome are Studies connected to epigraphical sources, but this is not obligatory.

# KL 2

<table>
<thead>
<tr>
<th>Institute</th>
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<th>Number of places</th>
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<th>Scholars’ degree program (M = Master, P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institute of Neuropathology</td>
<td>Prof. Martina Deckert</td>
<td>1</td>
<td>Biology, Medicine</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** Mai - December 2016

**Institute’s focal research areas**

The student will work in a project concerning molecular pathogenesis of primary central nervous system lymphoma. English language skills are mandatory, German language skills are negligible.
<table>
<thead>
<tr>
<th># KL 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Institute</strong></td>
</tr>
<tr>
<td>Department of Criminal Law and Criminal Procedure Law</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**
- Criminal Law;
- Criminal Procedure Law

<table>
<thead>
<tr>
<th># KL 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Institute</strong></td>
</tr>
<tr>
<td>Neurophysiology</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**
- The student(s) will work in the Department “Child and Adolescent Psychiatry”.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Institute of Classical Studies, Chair of Classical Philology (with special focus on Latin Philology)</td>
<td>Prof. Dr. Jan Felix Gaertner</td>
<td>2</td>
<td>Classics / Greek Language and Literature or Latin Language and Literature</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:**

Students are welcome from May on, but our courses usually run from the beginning of April until the middle of July and then from the beginning of October to early February. August tends to be vacation time in Germany.

**Institute’s focal research areas**

Latin Historiography, Augustan Poetry, Greek and Roman Comedy as well as other fields of Classical Studies.
University of Muenster (MS)

The University of Muenster (WWU Muenster) has developed a strong research profile in natural sciences, the humanities, medicine, law and business administration. The WWU Muenster is one of the biggest universities in Germany and has 15 Departments in 7 Faculties. Founded in 1780, the WWU is also a university with a long tradition in teaching and research.

http://www.uni-muenster.de/en/

The language center of the University of Münster offers language classes at different dates throughout the whole year. You will find more information on the dates and the requirements here: http://spz.uni-muenster.de/en/daf

Contacts: Elisabeth Schattke / Dr. Petra Hille
International Office
Westfälische Wilhelms-Universitaet Muenster,
Schlossplatz 3, 49149 Muenster, Germany
elisabeth.schattke@wwu.de, Tel. 0251/ 83- 22459;
petra.hille@wwu.de, Tel.: 0251/ 83-22255
<table>
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<tr>
<th>Institute</th>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center for Eastern Mediterranean Studies</td>
<td>Prof. Dr. Reinhard Achenbach, Dr. Nikola Moustakis</td>
<td>2</td>
<td>Religious Studies, Jewish Studies, Coptic Studies, Ancient History; Archaeology; Oriental Studies</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** whole academic year; please note that in July, August and September most scholars are not on location because of holidays and fieldworks.

**Institute's focal research areas**

The focus of research is on religious, historical, cultural, social and economic themes concerning the ancient Eastern Mediterranean region.

The scholarship holder can use the excellent libraries, make contact with the scholars of the Center of Eastern Mediterranean Studies to discuss his/her thesis and visit the regular courses (please note: the language of instruction is German).

German language courses are offered by the University of Muenster (see above) and are strongly recommended to scholarship holders who don’t know any or just a little German.
### MS 2

<table>
<thead>
<tr>
<th>Institute</th>
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<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (M = Master, P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutum Judaicum</td>
<td>Prof. Dr. Lutz Doering</td>
<td>2</td>
<td>Jewish Studies, Jewish History, Talmud, Ancient Jewish Literature, Mediterranean Religions and related subjects</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** 2. May – 22. December

**Institute’s focal research areas**
Ancient Judaism and its cultural, political, and religious context (Greece, Rome, early Christianity)

### MS 3

<table>
<thead>
<tr>
<th>Institute</th>
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<th>Scholars’ degree program (B = Bachelor; M = Master; P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Physics</td>
<td>Prof. Dr. Helmut Zacharias</td>
<td>1</td>
<td>laser science</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May - December

**Institute’s focal research areas**
Femtosecond coherent soft x-ray radiation; two-photon photoemission spectroscopy
Muenster University of Applied Sciences (MFH)

The University of Applied Sciences (MUAS) was founded in 1971 out of public and private schools and has developed to a modern, achievement-oriented and science-oriented university. MUAS is with around 12,700 students and 14 faculties/central research institutions one of the biggest institutions of its kind in Germany. The departments and institutions are located at different places in Münster and Steinfurt.

A Welcome Service for foreign students is offered to make students’ life easier and to integrate them successfully into everyday life at the university.

Internet: www.fh-muenster.de

Contact: International Office
Patricia Ferrier
Hüfferstraße 27, 48149 Germany
Phone +49 251 8364119
Fax: +49 251 8364014
Email: ferrier@fh-muenster.de
#MFH 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (M = Master, P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering Laboratory for Thermal and Power Engineering</td>
<td>Prof. Dr.-Ing. habil. Stefan aus der Wiesche</td>
<td>2</td>
<td>Mechanical Engineering</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May – December

**Institute’s focal research areas**

All research projects are dealing with fluid mechanics and heat transfer (both experimental and theoretical research). Every project is linked to a larger research project coordinated by PhD students and research assistants in the lab. The supervision and support of the students is fully ensured. The following projects are currently open for the present initiative:

- Boiling heat transfer and investigation of microscale flow phenomena
- Convective heat transfer from rotating disks
- Flow separation and reattachment of a turbulent boundary layer

Further information is available (see corresponding internet page of the lab).

#MFH 2

<table>
<thead>
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<th>Discipline or subject area</th>
<th>Scholars’ degree program (M = Master, P = PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Process Engineering</td>
<td>Prof. Joachim Guderian</td>
<td>1</td>
<td>Chemical Engineering</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** Mid September to Mid December 2016

**Institute’s focal research areas**

Investigation of the Temperature Influence on Carbon Molecular Sieves in Pressure Swing Adsorption Plants – Lab Experiments and Modelling in an existing Aspen Simulation Environment
University of Paderborn (PB)

University of Paderborn is a fully accredited state university offering all types of academic degrees including PhD and postdoctoral lecture qualification.

The university has an academic staff of about 1.000 and offers a wide range of subjects in five faculties: Faculty of Arts and Humanities, Faculty of Business Administration and Economics, Faculty of Science, Faculty of Mechanical Engineering, Faculty of Computer Science, Electrical Engineering and Mathematics.

There are about 19.500 students currently studying at the University, among them about 1500 international students.

www.uni-paderborn.de

Language courses: 4 - weeks crash course of 20 hours per week; starts before the official start of the semester in March and in September (100 €). Another course of 10 hours per week runs during the semester (200 €).

Contact: Ms. Kerstin Ollech

International Office, Universität Paderborn, 33095 Paderborn, Germany

E-Mail: ollech@zv.uni-paderborn.de

Tel.: +49-5251-60-3638

# PB 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair of Mechatronics and Dynamics</td>
<td>Dr. Tobias Hemsel</td>
<td>2</td>
<td>Mechanical Engineering, Electrical Engineering, Mechatronics</td>
<td>M</td>
</tr>
</tbody>
</table>

Time frame: May - December

Institute’s focal research areas

- Dynamics and dependability of mechatronic systems
- Actuators and sensors, piezo- and ultrasound systems
- Non-linear dynamic systems and contact mechanics
<table>
<thead>
<tr>
<th>Institute</th>
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<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Physics</td>
<td>Prof. Dr. Arno Schindlmayr</td>
<td>1</td>
<td>Theoretical Physics, Applied Mathematics</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** 12 Weeks between 1 October and 31 December 2016

**Institute’s focal research areas**

Within the field of theoretical solid-state physics, the focus of our research is the development and application of ab initio methods to investigate the electronic structure and excitation spectra of solids without adjustable parameters. Our principal techniques are density-functional theory and many-body perturbation theory, which is based on Green functions. With these methods, the electronic, optical and magnetic properties of a material can be predicted using only fundamental quantum mechanics and the chemical composition of the material in question. We are particularly interested in the effects of correlation on the electronic band structure and in the accurate description of collective excitations, such as plasmons, excitons and magnons. Within a research project, candidates could make use of these techniques and the available computer codes for quantitative simulations of technologically interesting materials. Another important activity is the formal theory development with the aims of analysing the performance of common approximations and of improving the internal consistency of practical implementations as well as the conformance with known exact relations. For this purpose the methods are applied to test systems that have either analytic or numerically exact solutions for comparison. This offers a variety of possible short-term projects for candidates with a background of theoretical solid-state or molecular physics, many-body quantum mechanics or applied mathematics.
### PB 3

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET Lab – Cognitive Systems Engineering</td>
<td>Prof. Dr. Bärbel Mertsching</td>
<td>3</td>
<td>Computer Science, Electrical Engineering and related fields</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** May to December, favorably September to December

**Institute’s focal research areas**
- Autonomous and teleoperated mobile robot systems
- Computer vision
- Virtual and augmented reality/simulation
- Machine learning

### PB 4

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Philosophy</td>
<td>Prof. Dr. Ruth Hagengruber</td>
<td>1</td>
<td>Philosophy</td>
<td>M</td>
</tr>
</tbody>
</table>

**Time frame:** May – July

**Institute’s focal research areas**
- History of Philosophy,
- Philosophy of Economics,
- Political Philosophy
University of Siegen (SI)

The University of Siegen is a young, modern institute of higher education located centrally in the area bordering the three German federal states of Hesse, North Rhine-Westphalia and Rhineland-Palatine. The University has four faculties offering a diverse range of subjects. In addition, there are numerous science centres and facilities, as well as IT, language and communications services. 19,300 students are currently enrolled at the University of Siegen, nearly 10% are international students from more than 90 countries.

For language courses please see the link below for further information:
http://www.uni-siegen.de/kosi/angebot/kosi/fremdsprachen/deutsch/?lang=de

Contact:
Christine Müller
International Student Affairs
+49 271 740 3907
christine.mueller@zv.uni-siegen.de

# SI 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of History</td>
<td>Prof. Dr. Raphaela Averkorn</td>
<td>1</td>
<td>History</td>
<td>B, M</td>
</tr>
</tbody>
</table>

Time frame: May 1st – July 31st, 2016

Institute’s focal research areas

European Integration History, European History, History of the Mediterranean, History of International Relations, Global History, Social History, Economic History, Cultural History, History of Mentalities, Gender History, History of Latin America, History of Historiography

Prof. Averkorn is Programme Director of the international, interdisciplinary MA programme “Roads to Democracy(ies)” and the interdisciplinary MA programme “Internationale Kulturhistorische Studien” (participation in various courses is possible for students in MA programmes).
The University of Wuppertal, founded in 1972, is one of the state universities in North Rhine-Westphalia (NRW), which is economically the most significant German state with an outstanding educational and cultural landscape. The city of Wuppertal, situated close to Düsseldorf and Cologne in a particularly delightful region with wooded hills, meadows, orchards and fields, called the “Bergisches Land”, is an interesting mixture of outgoing metropolis and cosy village with a lot of leisure facilities. From any part of the city it is only a 10 minute walk to the nearest park or shady woodland path.


The University of Wuppertal towers over the city. The main campus enjoys a panoramic view across the town – a perfect environment for developing inspiring ideas and academic projects that will shape the future. Some 20,000 students from more than 100 countries benefit from our high-level academic approaches in teaching, and the university’s commitment to research and international collaboration. Wuppertal University offers a diverse range of programs in science, engineering economics and the humanities, as well as educational science, design and architecture. Our academic culture is marked by diversity, experience and innovation.

Study in Germany – Join us in Wuppertal!
http://www.internationales.uni-wuppertal.de/en/incoming/international‐students.html
www.uni-wuppertal.de

Our Language Center “Sprachlehrinstitut –Sli”
http://www.sli.uni-wuppertal.de/en/germanasforeignlang.html offers the following courses of German as a foreign language:

- **Intensive German Courses** for perspective students
  Levels: A1 (beginners) to C1b (advanced). Weekdays daily beginning in April and October each year with 30 hours per week. Tuition 300 Euro/semester
- **German Course for Guest and Exchange Students** September 5 to 30, 2016 (“Survival German” + advanced level)
- **Lecture course „German Grammar“**
  (Level: B2 upward), 2 hours per week
- **German for Business and Economics**
  (Level: advanced), 2 hours per week
- **German for Humanities and Social Sciences**
  (Level: advanced), 2 hours per week
- **German for Science and Technology**
  (Level: advanced), 2 hours per week
Contact:
Andrea Bieck
Head of International Office
Bergische Universitaet Wuppertal
Gauss-Str. 20, D – 42097 Wuppertal
Phone: +49 (0) 202 439 2181 / Fax: +49 (0)202 4393856
Email: bieck@uni-wuppertal.de
www.internationales.uni-wuppertal.de

# WU 1

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center for International Studies in Social Policy and Social Services</td>
<td>Prof. Dr. Heinz Suenker</td>
<td>4</td>
<td>Social Sciences; Education; Social Policy; Social Work; Migration; Gender; Social Sciences and Law</td>
<td>M</td>
</tr>
</tbody>
</table>

Time frame: May to July or October to December

Institute’s focal research areas
The center deals with theory, politics and practices in political and welfare institutions, in education and social services. We offer a broad range of topics with respect to comparative questions.
http://www.sozpaed.uni-wuppertal.de/sozialpolitik/
# WU 2

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research group</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Experimental Particle Physics</td>
<td>Prof. Dr. Wolfgang Wagner</td>
<td>1</td>
<td>Physics</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May 1<sup>st</sup> to November 30<sup>th</sup>

**Institute’s focal research areas**

Our group does research in the field of elementary particle physics with the ATLAS detector at the Large Hadron Collider (LHC) at the European Centre for Nuclear Research (CERN). The students can choose from two projects:

a) data analysis in top quark physics, or

b) digital electronics for detector readout.

In the analysis project the student will work on studies based on simulated events, preparing analyses to search for additional (new) Higgs bosons which decay to top quarks. The aim is to obtain a basic understanding of the event kinematics depending on the mass of the Higgs boson.

In the hardware project the student will work together with researchers preparing an future upgrade of the ATLAS pixel detector to cope with higher readout bandwidth.

# WU 3

<table>
<thead>
<tr>
<th>Institute</th>
<th>Contact at the institute</th>
<th>Number of places</th>
<th>Discipline or subject area</th>
<th>Scholars’ degree program (B= Bachelor; M= Master; P= PhD)</th>
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</thead>
<tbody>
<tr>
<td>School of Education, Institute for Educational Research</td>
<td>Prof. Dr. Petra Buchwald</td>
<td>4</td>
<td>Teacher Education</td>
<td>B, M</td>
</tr>
</tbody>
</table>

**Time frame:** May to June or October to December

**Institute’s focal research areas**

The center deals with theory and practices in education. We offer a broad range of topics with respect to learning environments. [http://www.ifb.uni-wuppertal.de/](http://www.ifb.uni-wuppertal.de/)