



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

**Call 2018**

**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 online registration form and submit it also via online.*

*Please consider the time frames offered by the host universities.*

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## Bielefeld University

Bielefeld - the "university of short ways" and of "interdisciplinary intertwinement"! Whereas elsewhere the departments and institutes are spread all over the city, Bielefeld University is a campus university. Thanks to this compactness, the disciplines are very close to one another and lots of opportunities for interdisciplinary encounter arise. There is even a special-purpose Center for Interdisciplinary Research, the "ZiF."

The I2SoS is an interdisciplinary Institute that is devoted to reflecting on science: scientific method, social epistemology, the impact of science on society, social influences on sciences, economic incentives and their effects on science, science and technology, science and economic development, ethics of science, medical ethics, history of science. The overall focus is on the relation between science and society.

<http://www.uni-bielefeld.de/%28en%29/i2sos/index.html>

Visiting students can take part in all classes in philosophy, history, and economics unless access is restricted (restrictions may apply to economics classes). Accordingly, visiting students are not confined to science-related studies. However, the odds of acceptance are better for students with interests in such studies. The master's program "History, Economics and Philosophy of Science" offers English-language classes (<http://www.uni-bielefeld.de/i2sos/heps/international/index.html>).

Bielefeld University offers the opportunity of taking a German language course at "PunktUm". Intensive courses (20-30 lessons/week) in March, August and September (before the lecture periods). Courses with four lessons/week during the lecture periods. For more information see: <http://www.uni-bielefeld.de/punktum>

[www.uni-bielefeld.de](http://www.uni-bielefeld.de)

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**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Bursars' degree program</b> (B = Bachelor; M = Master; P= PhD)
Institute for Interdisciplinary Studies of Science	Prof. Dr. Martin Carrier	1	Philosophy of Science, History of Science, Economics of Scientific Knowledge, Medical Ethics	M, P
<b>Time frame:</b>	June – December (preferred: September to December)			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>• Philosophy of Science, History of Science, Economics of Scientific Knowledge, Medical Ethics</li> </ul>			

**# 2**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Bursars' degree program</b> (B = Bachelor; M = Master; P= PhD)
Faculty of Physics	Prof. Dr. Armin Gölzhäuser	1	Physics, Chemistry	M, B
<b>Time frame:</b>	April – December 2018			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>• Supramolecular Physics</li> <li>• Chemical Nanolithography</li> <li>• Carbon Nanomembranes</li> </ul>			

## **Bielefeld University of Applied Sciences**

Five Faculties: Design, Architecture and Civil Engineering and Technology, Engineering and Mathematics, Social Sciences, Business and Health.

Courses are mainly in German (language of instruction)

About 10,000 students enrolled, including approximately 650 international students.

During the *freshers' weeks* German language courses for guest students are organized for all levels. During the lecture time German courses are not necessarily for all levels available.

Summer term 2018:                    12.03.2018 – 30.03.2018

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

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# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Faculty of Business and Health, Department of Business	Prof. Dr. Uwe Rössler  Phone: +49-521 106-5080  E-Mail: uwe.roessler@fh-bielefeld.de	1	Business Administration, Business Information Systems, Business Law, Business Psychology, International Studies in Management	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
<b>Time frame:</b>	10.09.2018 – 21.12.2018			
<b>Institute's focal research areas</b>	<p>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.</p> <p>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.</p> <p>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 health care professions as well as management of pedagogic institutions in the health care sector.</p>			

# 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Faculty of Architecture and Civil Engineering	Prof. Dr.-Ing. Johannes Weinig Phone: +49 571 71195 E-Mail: johannes.weinig@fh-bielefeld.de	1	Civil engineering or architecture  Scholarship holders should have previous knowledge in German language	B Architecture B Civil Engineering M Architecture M Civil Engineering (classes only in German language)
<b>Time frame:</b>	08.10.2018 – 21.12.2018			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>- Surveying methods and skills</li> <li>- Construction of plain light buildings (e.g. sports halls or stadiums)</li> <li>- Water engineering and water management</li> <li>- Micro- and ultra-filtration methods</li> <li>- Construction, Energy, Environment:</li> <li>- water engineering including water preparation,</li> <li>- energetic building restoration with alternative energy concepts</li> </ul>			



# 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Faculty of Design	Prof. Dr. Roman Bezjak  Phone: +49-521 106-7654  E-Mail: roman.bezjak@fh-bielefeld.de	1	Photography and media  Design and Communications design	B, M  Classes in German language  Personal consultation by professors and teachers in English  Papers can be written in English
<b>Time frame:</b>	03.04.2018 – 27.07.2018			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>- Photography and media</li> <li>- Book design</li> </ul>			

# 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Working Group of Textile Technologies	Andrea Ehrmann  Phone: 0049-521- 106-70254  E-Mail: andrea.ehrmann@fh-bielefeld.de	1	Physics, biology, chemistry, biotechnology, textiles, mechanical engineering, mechatronics, or related study directions	B, M or PhD
<b>Time frame:</b>	May – December 2018; the visit should not begin or end in September			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>- Textile chain, from spinning to knitting and weaving to finishing and confection. The focus is on material research, textile-based DSSCs and batteries, electrospinning and 3D printing combined with textile materials.</li> <li>- Micromagnetic simulations, AFM-/MFM investigations of magnetic nanostructures.</li> </ul>			

## University of Bonn

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 participates 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).

Free German language classes (4 hours per week during the semester) for students who are enrolled at Bonn University.

[www.uni-bonn.de](http://www.uni-bonn.de)

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# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Department of Radiology Medical Faculty, Division of "Molecular / Experimental Radiology"	Prof. Dr. Olga Golubnitchaja Mail: <a href="mailto:Olga.Golubnitschaja@ukb.uni-bonn.de">Olga.Golubnitschaja@ukb.uni-bonn.de</a> Phone: (+49 228) 28715982	1	Early / Predictive molecular diagnostics, Targeted prevention, Individualised patient profiling, Personalised Medicine	B, M
<b>Time frame:</b>	In consultation			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>- Development of disease specific molecular markers for predictive diagnostics and personalized therapy;</li> <li>- Application of clinical transcriptomics and proteomics;</li> <li>- Expression profiling of human blood;</li> <li>- Clinical evaluation of individual predisposition to breast cancer, leading causes of blindness, and chronic complications secondary to Diabetes mellitus type 2.</li> </ul> <p>Technological approaches: Clinical proteomics, "Expression Array", "Comet Assay", Zymography, "Real-Time"-PCR</p> <ul style="list-style-type: none"> <li>- Participation in the EPMA World Congress, September 2018, EU-Parliament, Brussels, <a href="http://www.epmanet.eu">www.epmanet.eu</a></li> </ul>			

## Ruhr-University Bochum

Ruhr University Bochum (RUB), about 41,000 students, more than 4,000 foreign students; is a 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](http://www.rub.de)

German language classes at RUB start in April (summer term) and October (winter term) each year, they are free of charge: <http://www.daf.ruhr-uni-bochum.de/>

International Office: [www.international.rub.de](http://www.international.rub.de)

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**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute of Archaeological Studies	Prof. Dr. Christof Berns, <a href="mailto:christof.berns@rub.de">christof.berns@rub.de</a>	1	Archaeology	BA, MA, Ph. D.
<b>Time frame:</b>	May – July 2018			
<b>Institute's focal research areas</b>	Archaeology; Ancient Cities and their Architecture; Material Culture of the Hellenistic and Roman World			

**# 2**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Chair for Tunnelling and Construction Management	Ivan Popovic, M.Sc. <a href="mailto:ivan.popovic@rub.de">ivan.popovic@rub.de</a>	1	Civil Engineering / Environmental Engineering / Geosciences PC knowledge (MS Office) necessary.	M, P
<b>Time frame:</b>	October - December (01.10. – 21.12.2018)			
<b>Institute's focal research areas</b>	soil conditioning for EPB and slurry shields, process simulation, cost-risk analysis, shotcrete laboratory experiments, tunnel safety, separation of used slurries.			

**# 3**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Clinical Neuropsychology	Prof. Dr. Boris Suchan <a href="mailto:boris.suchan@rub.de">boris.suchan@rub.de</a>	1	Neuro- psychology, Cognitive Neuroscience	B, M, P
<b>Time frame:</b>	April – July; October – December 2018			
<b>Institute's focal research areas</b>	<p>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.</p> <p>As techniques, we are using EEG and fMRI. Please take a look at our homepage to get an impression of our research topics (<a href="http://www.ruhr-uni-bochum.de/neuropsych/">http://www.ruhr-uni-bochum.de/neuropsych/</a>).</p>			



# 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M= Master; P= PhD)
Chair of public law, esp. administrative law at the Faculty of Law	Prof. Dr. Jörg Ennuschat Ruhr-University Bochum, Universitätsstr. 150, GC 8/155, D-44801 Bochum  phone: +49 234 32 28275  email: ls-ennuschat@ruhr-uni-bochum.de	1	Law or any other subject related to the possible topics and fields of work for scholarship students (see below).	P
<b>Time frame:</b>	October – December 2018			
<b>Institute's focal research areas</b>	Possible topics and fields of work are: (1) Prevention and prosecution of money laundering (2) Social inclusion in schools			

# 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M= Master; P= PhD)
Chair for interdisciplinary questions in Philosophy and Theology	PD Dr. Ludger Jansen	1	Philosophy, Theology, Computer Science, Biology, Medicine, Law	Preference will be given to students with M or P
<b>Time frame:</b>	May—July or Oct—Dec 2018			
<b>Institute's focal research areas</b>	Philosophy of Religion Philosophy of Science & Theology Transhumanism Philosophy of Computing Ancient Philosophy Philosophy of Time and Space Biomedical Ontology Social Ontology, including Legal Ontology Development of ontologies in OWL			

# 6

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M= Master; P= PhD)
Institute for Philosophy II	Prof. Dr. Albert Newen Prof. Dr. James Wilberding <a href="mailto:albert.newen@rub.de">albert.newen@rub.de</a> ;	1	Theoretical Philosophy: Mind, Logic, Language, Epistemology  Ancient Philosophy	M Philosophy  (Courses are in English or German)
<b>Time frame:</b>	April – December 2018			
<b>Institute's focal research areas</b>	The institute is specialized in Philosophy of Language, Mind and Science. It is also offering Logic and Epistemology and a program in Ancient Philosophy.			

## **Bochum University of Applied Sciences**

Bochum University of Applied Science as an international university is located in the Ruhr area and takes a pragmatic and innovative approach to teaching and research. Its six departments focus mainly on architecture, civil engineering, surveying and geoinformatics, electrical engineering and information technology, mechatronics and mechanical engineering, and business administration.

German language courses begin with the semester (mid of April and mid of October) at the Ruhr University Bochum, a walk of 5 minutes for our students.

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# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M= Master; P= PhD)
Geoinformatics	Prof. Dr. Andreas Wytzisk	1	Computer or IT science students should have good English knowledge	M or PhD
<b>Time frame:</b>	Beginning of May until end of July or Beginning of October			
<b>Institute's focal research areas</b>	In order to optimize environmental monitoring processes the department of Geodesy is working on the design and development of an information infrastructure, which integrates satellite data (Copernicus), in-situ sensor networks, domain-specific web-based information systems and hydrological models based on open APIs. The project is coordinated by the Bochum University of Applied Sciences and funded by the German Federal Ministry of Transport and Digital Infrastructures.			

# 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M= Master; P= PhD)
Electromobility	Prof. Dr. Friedbert Pautzke	1	Electrical Engineering or Mechatronic	B or M
<b>Time frame:</b>	anytime			
<b>Institute's focal research areas</b>	<p>The SolarCar project by the Bochum University of Applied Sciences exists for more than 18 years and takes a special and unique place in the academic landscape. With more than 60 members, it is one of the biggest solarcar teams on earth.</p> <p>Problem based learning is the key principle in the project, paying great attention to the progress and learning curve of each individual student. They are gradually trusted with more responsibility and hence develop their problem-solving skills.</p> <p>The students are in charge, developing a specific part for the SolarCar. Starting from component research, following by development, construction, testing and up to the car implementation. A group of professors and faculty advisers are supporting the students on request along the development process.</p>			

**# 3**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M= Master; P= PhD)</b>
Computer science, electrical engineering	Prof. Marco Schmidt	1	Computer science, electrical engineering	B or M
<b>Time frame:</b>	April 2018 – July 2018 and October 2018 – December 2018			
<b>Institute's focal research areas</b>	Robotics and related disciplines, i.e. artificial intelligence, computer vision, control engineering  <i>No German courses for this institute, because it is located at the campus Velbert/Heiligenhaus</i>			

**# 4**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M= Master; P= PhD)</b>
Institute for Thermo- and Fluid mechanics, Department of Mechatronics and Mechanical Engineering	Prof. Dr. Ralph Lindken	1	Mechanical Engineering	B or M
<b>Time frame:</b>	May to December			
<b>Institute's focal research areas</b>	Our research projects are dealing with fluid mechanics, both experimental and numerical research. Research topics are part of the renewable energy related projects, e.g. ROWDY or SolarCool. Further information is available on the corresponding web page of the institute.			



## Bonn-Rhein-Sieg University of Applied Sciences

The Bonn-Rhein-Sieg University of Applied Sciences (Hochschule Bonn-Rhein-Sieg - HBRS) was established in 1995 as a national university funded by the government. Traditionally, HBRS attracts applicants from the within its region, but the University has formal and informal cooperation agreements with more than 70 universities throughout the world.

HBRS specializes in business administration, natural sciences, computer science, social security management, technical journalism and engineering. The focus areas for HBRS 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.

The campuses in Sankt Augustin, Rheinbach and Hennef are well-equipped with modern laboratories, and technical equipment. HBRS has approximately 150 Professors of which many receive research grants. There are about 200 support staff including technical and administrative employees. HBRS currently has around 8000 students and the Department of Natural Sciences recruits approx. 140 undergraduates in Bachelor programs and approx. 30 students in a Master program each year in the study courses Applied Biology (as an international study course) and Chemistry with Material Sciences (as a German study course), amongst others.

Very recently, a new Master program was started in "Material Science and Sustainability Methods" focusing on the development of novel advanced materials for automobile and packaging industry as well as biomedicine and tissue engineering. Teaching languages are German and English (50/50). Students will be involved in research projects including material synthesis, analysis and testing.

Due to the time frame, participation at the regular semester German courses is unfortunately not possible.

[www.h-bonn-rhein-sieg.de](http://www.h-bonn-rhein-sieg.de)

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# 1

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	1	Biology	M, P
<b>Time frame:</b>	Arrival: First days of July, August or September 2018, minimum stay: 10 weeks			
<b>Institute's focal research areas</b>	<p><b>The work deals with</b> human stem cell differentiation and their signalling pathways.</p> <p><b>Overview:</b></p> <p>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.</p> <p>Human mesenchymal stem cells which are isolated from adipose tissue have the advantage of potential autologous transplantation ability. There is strong evidence that they can be differentiated in various lineages such as the chondrogenic, osteogenic, adipogenic and myogenic direction. Inductions of the cells into multiple lineages as well as their use in the undifferentiated state already resulted phase I to III clinical studies for various diseases all over the world.</p> <p>We aim at investigating fat-derived MSC, as potential donor cells, for their ability to differentiate in the osteogenic lineage for future treatment of critical size bone defects and in the adipogenic direction to develop an in vitro model for the onset of atherosclerosis.</p> <p>In another project ecto-mesenchymal stem cells derived from dental follicles of wisdom teeth are used to find strategies improving dental implant stability.</p> <p>We also differentiate the stem cell towards endothelial and smooth muscle cell for a better understanding of angiogenesis.</p>			

Other studies involve purinergic receptors and Hox genes for the characterization of stem cells derived from various human body parts during differentiation to find the best suitable cells and tissues for each differentiation lineage.

More information on the subjects can be found on the homepage:

<https://www.h-brs.de/en/prof-dr-edda-tobiasch-0>

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

- Differentiation and characterization of adult, human mesenchymal stem cells
- Determination of the role of the differentiating adipocyte in an in vitro model of stenosis
- Investigation of purinergic receptors and Hox signalling and their role in human stem cell differentiation
- 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, three PhD students, and several Master- and Bachelor students working on their theses. One of the PhD students will take care for the guest student.

# 2

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. Margit Schulze, Organic and Polymer Chemistry	1	Chemistry, Material Science	B, M, P
<b>Time frame:</b>	Arrival: First days of July, August or September 2018, minimum stay: 8 weeks			
<b>Institute's focal research areas</b>	<p>The work deals with:</p> <ul style="list-style-type: none"> <li>a) development of polymer scaffolds for stem cell differentiation and proliferation</li> <li>b) development of polymers used in regenerative medicine (tissue engineering and drug release)</li> <li>c) development of polymeric materials from renewable resources (biomass)</li> </ul> <p>The work encompasses the following topics for potential scholarship holder:</p> <ul style="list-style-type: none"> <li>• Synthesis of appropriate polymers (e.g. biopolymers such as microspheres and hydrogels)</li> <li>• Characterization of polymer structure</li> <li>• Surface modification / functionalization</li> <li>• Bioactivation of the scaffolds (e.g. ligand coupling)</li> <li>• Biocompatibility testing</li> </ul>			

## TU Dortmund University

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 34.000. 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.

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[barbara.schneider@tu-dortmund.de](mailto:barbara.schneider@tu-dortmund.de)

**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Department for English and American Studies	Prof. Dr. Walter Grünzweig	1	American Studies; Cultural Studies and related fields	B, M
<b>Time frame:</b>	October – December 2018			
<b>Institute's focal research areas</b>	European-American relations, images of the United States, Anti-Americanism, Religion & American Culture, reception of American literature abroad, American political cultures, Exile in the United States, Jewish-American Literature.			

## **Dortmund University of Applied Sciences and Arts**

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

Under certain conditions there may be a possibility to join the German courses offered at the faculties, or attend German courses offered by the Career Service of the FH Dortmund in cooperation with the Auslandsgesellschaft Intercultural Academy gGmbH (Dortmund) (only B1 level) or to book one at a private institution.

**Contact:**

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# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Faculty of Computer Science	Christopher Brumann Emil-Figge-Straße 42, 44227 Dortmund Phone: +49 (0231) 755-8939 (communication preference: email) Email: <a href="mailto:Christopher.brumann@fh-dortmund.de">Christopher.brumann@fh-dortmund.de</a> <a href="https://www.fh-dortmund.de/brumann/">https://www.fh-dortmund.de/brumann/</a>	1	Computer Science	B, M
<b>Time frame:</b>	09/2018 – 11/2018			
<b>Institute's focal research areas</b>	<p>Our working group is located in the Department of Computer Science and is focused on medical Signal &amp; Image processing.</p> <p>Currently we are working on:</p> <ul style="list-style-type: none"> <li>- Video-based Vital Sign Monitoring and Processing</li> <li>- Computer Vision and Pattern Recognition in Squash (Sport)</li> </ul> <p>Possible research areas:</p> <ul style="list-style-type: none"> <li>- Remote Heart Rate Measurement using a Camera</li> <li>- Computer Vision Tracking Algorithms</li> <li>- Communication of "Camera / Tracking Data" between Multiple Single Board Computer (e.g. Raspberry Pi)</li> </ul>			



## Heinrich-Heine-University Duesseldorf

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](http://www.uni-duesseldorf.de)

Language Courses will be provided by the university. At the moment the planning for next year is not yet public. However, every non German speaking student can participate.

**Contact:**

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**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute for Jewish Studies	Prof. Dr. Marion Aptroot <a href="mailto:aptroot@phil.hhu.de">aptroot@phil.hhu.de</a> Tel. 81-13228	1	Yiddish Studies (including interdisciplinary studies)	B, M, P
<b>Time frame:</b>	April – July and September - December 2018			
<b>Institute's focal research areas</b>	Yiddish: Yiddish Language, Yiddish Literature and Culture, Yiddish Linguistics			

**# 2**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute for Art History	Prof. Dr. Andrea von Hülsen-Esch	1	Art history  Knowledge of German language is required.	M, P
<b>Time frame:</b>	April 2018 – July 2018 September 2018 – December 2018			
<b>Institute's focal research areas</b>	Ageing studies, materiality in art, medieval art history, treasury art, jewish art around 1900, iconography, book illumination, political art.			

# 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Romanistik II	Univ.-Prof. Dr. Rolf Kailuweit <a href="mailto:kailuweit@phil.hhu.de">kailuweit@phil.hhu.de</a> , +49 21181-12984  Fabiola Casagrande <a href="mailto:fabiola.casagrande@hhu.de">fabiola.casagrande@hhu.de</a> , +49 21181-12556	1	General linguistics	B, M, P
<b>Time frame:</b>	Consultation with the faculty			
<b>Institute's focal research areas</b>	Projects in the field of argument realization. Comparison of Germanic and Romance with Semitic languages.			

# 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute for Romance Languages and Literatures, Department I: Literature in Spanish and French	Prof. Dr. Ursula Hennigfeld <a href="mailto:hennigfeld@phil.hhu.de">hennigfeld@phil.hhu.de</a>  Jenny Augustin	1	Spanish or French Literature  (Minimum required level of	B, M, PhD

	<a href="mailto:jaugustin@phil.hhu.de">jaugustin@phil.hhu.de</a> Tel. 0211-81 15273		language proficiency : B2)	
<b>Time frame:</b>	Optional: max. 12 weeks, either May-July or October-December, 2018			
<b>Institute's focal research areas</b>	Spanish, Latin American and/or French Literature and Cultural Studies.			

### # 5

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute of Pharmaceutical and Medicinal Chemistry	Prof. Dr. Matthias U. Kassack	1	Pharmacy, Medicinal Chemistry, Biochemistry  Fluently English required	M, P
<b>Time frame:</b>	Mai 2018 till December 2018			
<b>Institute's focal research areas</b>	Resistance of cancer cells against chemotherapeutic agents: mechanisms and strategies to overcome chemoresistance.  Possible topics for successful candidates: evaluation of epigenetic modulators to overcome chemoresistance in cancer cells.  Work methods: cell culture, cell biology, flow cytometry, cell viability assays, apoptosis, and fluorescence microscopy.			

**# 6**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute for Jewish Studies	Prof. Dr. Stefan Rohrbacher Tel.: +49-211-8115852 <a href="mailto:rohrbacher@phil.hhu.de">rohrbacher@phil.hhu.de</a>	1	Jewish Studies, History (English Language)	B, M, PhD
<b>Time frame:</b>	Summer Term 2018			
<b>Institute's focal research areas</b>	Jewish History of the Early Modern Period, 19th Century; German-Jewish History, History of Antisemitism.			

**# 7**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute for Quantitative Genetics and Genomics of Plants	Prof. Dr. Benjamin Stich	1	Agricultural Biology, Biology	B, M
<b>Time frame:</b>	April-August			
<b>Institute's focal research areas</b>	Screening of multiple barley populations for agronomically relevant traits and statistical analyses of these data.			

# 8

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute of Physical Biology, Department of Biology. Director: Dieter Willbold	Assistant professor Dr. Alexander K. Buell <a href="http://www.ipb.hhu.de/en/teams/teams/team-buell.html">http://www.ipb.hhu.de/en/teams/teams/team-buell.html</a>	1	Physical Chemistry, Biophysics, Materials Science, Biotechnology, Structural Biology	M, PhD
<b>Time frame:</b>	April-July 2018 or October-December 2018			
<b>Institute's focal research areas</b>	<p>At the institute of Physical Biology, we are mostly interested in the mechanisms of biomolecular self-assembly, both in a medical context as well as a biomaterials context. The self-assembly of peptides and proteins into ordered fibrillar structures (amyloid fibrils) is most notably characteristic for a range of severe diseases, such as Alzheimer's and Parkinson's disease. However, amyloid fibrils are also used for functional purposes in nature, for example in bacterial biofilms. We aim to achieve a detailed understanding of these processes in order to be able to control them and interfere with them in a systematic manner.</p> <p>Furthermore, we are also interested in exploiting the self-assembly of peptides and proteins for the generation of novel materials with interesting properties. We use a range of experimental approaches, such as spectroscopy, atomic force microscopy (AFM), calorimetry, biosensing (surface plasmon resonance, quartz crystal microbalance), microfluidics, molecular biology etc. We would design a project for three months together with the visiting student that fits his/her interests within this general framework.</p>			

## University of Duisburg-Essen

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](http://www.uni-duisburg-essen.de)

For free German classes in preparation for one's studies see:

[www.uni-due.de/international/deutschkurse.shtml](http://www.uni-due.de/international/deutschkurse.shtml)

Summer term: April 1, 2018 to September 30, 2018

For further information see:

<https://campus.uni-due.de/lfs/rds?state=wtree&search=1&trex=step&root120172=183994|188175|185719&P.vx=kurz>

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# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Department of Neurology Experimental Neurology	Prof. Dr. Dagmar Timmann Hufelandstr. 55 45147 Essen Tel: +49 (0)201 723 6508 Email: <a href="mailto:dagmar.timmann-braun@uni-due.de">dagmar.timmann-braun@uni-due.de</a> <a href="https://www.uni-due.de/neurologie/">https://www.uni-due.de/neurologie/</a> <a href="https://www.dagmar-timmann.de/">https://www.dagmar-timmann.de/</a>	1	Neuroscience, Neuro-psychology, Biomechanics	B, M
<b>Time frame:</b>	12 weeks within May – December 2018			
<b>Institute's focal research areas</b>	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.			

# 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Faculty of Educational Sciences Institute of Sport and Movement Sciences Division of Movement and Training Sciences / Biomechanics of Sport	Prof. Dr. Thomas Mühlbauer Gladbecker Str. 182 Room SP 0.26, 45141 Essen Phone: +49 (0)201.183.7333 E-Mail: thomas.muehlbauer@uni-due.de	1	Sport Science: Movement and Training Science, Biomechanics of Sport  English language: mandatory  German language: optional	P or M
<b>Time frame:</b>	May to December 2018			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>-Aspects of motor control and learning in different populations (e.g. children, adolescents, young and old adults, athletes)</li> <li>-Effects of physical training (e.g. balance and resistance training) on motor performance in children and adolescents</li> <li>-Biomechanical analysis of the ankle joint</li> <li>-Function and adaptation of the lower-extremity muscles</li> </ul>			

## Research Center Juelich

Forschungszentrum Jülich, member of the Helmholtz Association, is one of the major research institutions in Europe.

Key technologies in the areas of energy and environment, information technology, and brain research – this characterizes Forschungszentrum Jülich's profile.

We believe that the key to solving global challenges, such as energy supply technologies or for information technologies of the future, is understanding materials. We investigate materials in the context of systems and processes on different scales, from the atomic to the global level. In this way, we embed our research in the wider context, taking into consideration not only scientific questions, but also social, economic, and ethical issues.

In cooperation with our partners, we develop and use key technologies, such as high-performance computing, to open the door to new applications. In this process, research questions and technological developments are inextricably linked with each other.

We are involved in developing completely new industries, such as the bioeconomy, on the basis of our fundamental scientific research facilitated by our interdisciplinary and international approach.

About 5,900 employees, over 200 cooperation partners in Germany and abroad, a unique infrastructure, and unrivalled expertise in physics, materials science, nanotechnology, and information technology – this is the potential that we exploit in working with future key technologies to develop new solutions in the areas of energy and environment, information and brain research.

Excellent researchers who cooperate across the borders of institutes, research centres, and even countries are Jülich's greatest strength. In order to allow them to collaborate with leading partners throughout the world, Jülich participates in strategic alliances both in Germany and abroad.

Young scientists, undergraduates, and PhD students are central to the intellectually stimulating environment and vitality of the campus. Jülich offers them a working environment with state-of-the-art instruments and international contacts, as well as the opportunity to research independently at an early stage of their career.

Forschungszentrum Jülich is proud of the tools it provides for its researchers to do their work: simulation with supercomputers, research with neutrons, imaging techniques for medicine, nanotechnology tools – these modern instruments facilitate breakthroughs to new horizons of knowledge. This infrastructure, valued and used by researchers throughout the world, characterizes Jülich as the home of key technologies.

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

**Contact:**

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**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
INM-2	Prof. Dr. A. Bauer Dr. S. Beer Phone:+49-(0)2461-61-1954; e-mail: <a href="mailto:si.beer@fz-juelich.de">si.beer@fz-juelich.de</a>	1	Physics, Mathematics, Biomedical Engineering, Computer Science	M, P
<b>Time frame:</b>	01.10.-20.12.2018			
<b>Institute's focal research areas</b>	Positron Emission Tomography (PET) is a non-invasive technique for studying in vivo tracer pharmacokinetics and metabolism. High resolution animal PET is used e.g. for receptor studies in brain research, where the best possible image quality and quantitative accuracy is required. The combination of PET with Computer Tomography (CT) or Magnetic Resonance Imaging (MRI) gives additional and complementary information about the anatomy.  The focus for the scholarship project is to take part in the development of methodology to provide the best possible image			

	<p>quality and quantitative accuracy for PET and combined PET/MRI. The work may involve computer modeling and simulation, the development of dedicated imaging strategies, image reconstruction algorithms or statistical analysis.</p> <p>PET is multi-disciplinary, so that the projects offer the opportunity to experience collaborative research and teamwork among various disciplines from chemistry, physics, engineering and mathematics to biology and (pre)clinical research.</p> <p>The hosting group “Molecular Neuroimaging” comprises physicians, biologists, physicists and several technicians. Currently, the working group operates a combined PET/CT scanner for small animal imaging as well as a combined PET/MRI scanner for human imaging.</p> <p>More information is available at <a href="http://www.fz-juelich.de/inm/inm-2/">http://www.fz-juelich.de/inm/inm-2/</a></p>
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**# 2**

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Forschungszentrum Jülich GmbH, Institute of Complex Systems, Theoretical Soft Matters and Biophysics <a href="http://www.fz-juelich.de/ics/ics-2/EN/Home/home_node.html;jsessionid=85B26BBB474DFA067BDE7DBF3A95FD53">http://www.fz-juelich.de/ics/ics-2/EN/Home/home_node.html;jsessionid=85B26BBB474DFA067BDE7DBF3A95FD53</a>	Dr. Thorsten Auth Phone: +49 2461 61 1735 <a href="mailto:t.auth@fz-juelich.de">t.auth@fz-juelich.de</a>	1	Physics, Chemistry, Biology, Computer Science	B, M, P
<b>Time frame:</b>	02.05. – 30.11.2018			

<b>Institute's focal research areas</b>	<p>You 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.</p> <p>From a technical point of view, particles at interfaces and at membranes 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. The details of the project and the work plan for the student will be adjusted according to the area of study of the applicant.</p>
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## University of Cologne

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 closely cooperates with 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.

Additional programme: German for Students of Classical Studies, 4. Juni – 13. Juli 2018.

[www.uni-koeln.de](http://www.uni-koeln.de)

**Contact:** Herr Dr. Stefan Bildhauer, Director of International Affairs

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**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Historic Institute	Prof. Dr. Werner Eck  E-Mail: Werner.Eck@uni-koeln.de	1	Classic-Ancient History, Epigraphy	B, M, P
<b>Time frame:</b>	March to October			
<b>Institute's focal research areas</b>	The young scholar should participate in our work on the Corpus Inscriptionum Iudaeae/Palaestinae.			



**# 2**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (M = Master, P = PhD)</b>
Department of Neuropathology, University Hospital of Cologne	Prof. Dr. Martina Deckert	1	Biology, Molecular Biology, Medicine, Veterinary Medicine, Neuroscienc, Neuroimmunology Immunology	M, P
<b>Time frame:</b>	May and June, September through November			
<b>Institute's focal research areas</b>	The pathogenesis of primary lymphoma of the central nervous system (CNS), of autoimmune disorders of the central and peripheral nervous system is addressed by immunological and molecular tools including Immunohistochemistry, flow cytometry of leukocytes isolated from the CNS and immune organs, ELISPOT, PCR, RT-PCR, cloning, etc. Thus, the student will be introduced to multiple modern immunological and molecular genetic techniques and can learn how to implement these techniques in the scientific approach to dissect the pathogenesis of the diseases of interest.			

**# 3**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Department of Criminal Law and Criminal Procedure Law	Prof. Dr. Martin Waßmer Phone: +49 221 470 4060 E-Mail: martin.wassmer@uni-koeln.de	1	Criminal Law; Criminal Procedure Law	M
<b>Time frame:</b>	8 – 12 weeks			
<b>Institute's focal research areas</b>	Criminal Law; Criminal Procedure Law			

# 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Dept. for Media and Technology Management	Prof. Dr. C. Loebbecke, M.B.A.	1	Business / Media and Technology Management	M, P
<b>Time frame:</b>	October – December 2018, but also earlier possible			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"> <li>- Business models, platform strategies, digitization and innovation and entrepreneurship in the contexts of media, telecommunication and IT products, markets and companies</li> <li>- Management of digital media goods and services: Software, databases, financial information, online magazines, interactive services, information services, multimedia objects</li> <li>- Usage of media and technology (IT and telecom) in a corporate context</li> <li>- Managing cybersecurity</li> </ul> <p>Candidates can bring their research project or get involved in our ongoing efforts.</p>			

# 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute of Archaeology (and additionally Research Training Group "Archaeology of Pre-Modern Economies")	Prof. Dr. Michael Heinzelmann	1	Classical Archaeology	M, P
<b>Time frame:</b>	April to July			
<b>Institute's focal research areas</b>	<p>Hellenistic-Roman-Late Antique Archaeology in the Mediterranean and the Near East.</p> <p>Research fields: Landscape Archaeology, Urbanism, Architecture, Sculpture, Funerary Archaeology, Economy (Research Training Group "Archaeology of Pre-Modern Economies"), ongoing field projects in various countries (e.g. Israel, Egypt).</p> <p>Special Methodological Expertise: Computational archaeology, ArchaeoGeophysics.</p> <p>Further information:</p> <ul style="list-style-type: none"> <li>- Institute of Archaeology: <a href="http://archaeologie.uni-koeln.de/">http://archaeologie.uni-koeln.de/</a></li> <li>- Research Training Group: <a href="http://www.wirtschaftsarchaeologie.de/en/">http://www.wirtschaftsarchaeologie.de/en/</a></li> </ul>			

**# 6**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute of Archaeology	Prof. Dr. Anja Bettenworth Phone: +49 221-470 4810 E-Mail: abettenw@uni-koeln.de	1	Latin, Greek, Ancient History, Archaeology, Papyrology, Epigraphy, Numismatics	M, P
<b>Time frame:</b>	4. Juni – 13. Juli 2018			
<b>Institute's focal research areas</b>	Preparation of a master thesis or a conferral of a doctorate in the field of classical and ancient studies or working on the project of graduation (conferral of a doctorate) with the resources and collections at Cologne. Students from the fields of classical philology, papyrology, epigraphy and numismatics are preferred.			

## University of Muenster

The University of Muenster (WWU Münster) has developed a strong research profile in classical and ancient studies, natural sciences, the humanities, medicine, law and business administration. The WWU Münster 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. It targets top-level research in high-performance areas for and combines this with promoting first-class young researchers. WWU Münster has strong international activities with over 550 partner institutions around the world, with focus in Asia and Middle East, South America, and Europe. Its Welcome Center offers support for new arriving students and scientists, German language courses are regularly given in the Language Center without supplementary fees.

More information can be found at

<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  
Westfaelische Wilhelms-Universitaet Muenster,  
Schlossplatz 3, 49149 Muenster, Germany  
elisabeth.schattke@wwu.de, Tel. 0251/ 83- 22459;  
petra.hille@wwu.de, Tel.: 0251/ 83-22255

# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Centre for Eastern Mediterranean Studies (GKM)	Prof. Dr. Reinhard Achenbach Dr. Nikola Moustakis <a href="mailto:gkm@uni-muenster.de">gkm@uni-muenster.de</a> +49 251 83-22572	1	Religious Studies, Jewish Studies, Coptic Studies, Ancient History, Archaeology, Oriental Studies	M
<b>Time frame:</b>	whole academic year; please note that in July, August and September most scholars are not on location because of holidays and fieldworks.			
<b>Institute's focal research areas</b>	<p>The focus of research is on religious, historical, cultural, social and economic themes concerning the ancient Eastern Mediterranean region.</p> <p>The scholarship holder can use the excellent libraries, make contact with the scholars of the Centre of Eastern Mediterranean Studies to discuss his/her thesis and visit the regular courses (please note: the language of instruction is German).</p> <p>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.</p>			

**# 2**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (M = Master, P = PhD)</b>
Institutum Judaicum	Prof. Dr. Lutz Doering <a href="mailto:lutz.doering@uni-muenster.de">lutz.doering@uni-muenster.de</a> +49 251 83-2 25 62	1	Jewish Studies, Jewish History, Talmud, Ancient Jewish Literature, Mediterranean Religions and related subjects	B, M
<b>Time frame:</b>	2 May – 21 December 2018			
<b>Institute's focal research areas</b>	Ancient Judaism and its cultural, political, and religious context (Greece, Rome, early Christianity)			

**# 3**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Department of Physics	Prof. Dr. Helmut Zacharias	1	Physical chemistry, nanoscience	M
<b>Time frame:</b>	2018			
<b>Institute's focal research areas</b>	Self-organization, functional organic films			



**# 4**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute of Material Physics	PD Dr. Sergiy Divinski Tel: 0251 8339030 Email: <a href="mailto:divin@wwu.de">divin@wwu.de</a>	1	Materials Physics, Diffusion-related phenomena	B, M
<b>Time frame:</b>	May – November 2018			
<b>Institute's focal research areas</b>	The project is focused on atomic transport under plastic deformation. Specific experiments towards impact of cold plastic deformation (cold rolling) on the atomic transport will be performed using radioisotopes. The tracer experiments will be combined with careful characterization of microstructure using scanning electron microscopy. Solid background in diffusion processes and material processing is expected.			

# 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
AFO	Dr. Wilhelm Bauhus <a href="mailto:bauhus@uni-muenster.de">bauhus@uni-muenster.de</a> Tel.: +49 251 83 32279	1	All of them	B, M
<b>Time frame:</b>	Second half of the year 2018			
<b>Institute's focal research areas</b>	<p>Science and Technology-Transfer, strategies and methodologies for science communication and practical implementations, citizen science and Co-creation projects. International and EU projects in the field of research and knowledge transfer (ERASMUS+ ; Erasmus for young entrepreneurs; bilateral cooperation).</p> <p>At least basic German would be asset. Working language: English</p> <p>For an overview of the projects please consult our website (in German):</p> <p><a href="https://www.uni-muenster.de/AFO/index.shtml">https://www.uni-muenster.de/AFO/index.shtml</a></p> <p><a href="https://www.uni-muenster.de/Expedition-Muensterland/">https://www.uni-muenster.de/Expedition-Muensterland/</a></p>			

**# 6**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program (B = Bachelor; M = Master; P = PhD)</b>
Institute of Applied Physics, Nonlinear Photonics group	Prof. Dr. Cornelia Denz, Director <a href="mailto:denz@uni-muenster.de">denz@uni-muenster.de</a>  Tel. +49 251 8333518  Fax. +49 251 8339811  <a href="http://www.nonlinear-photonics.de">http://www.nonlinear-photonics.de</a>	1	Physics; Optics; El. Engineering	M, P
<b>Time frame:</b>	June – October 2018			

<p><b>Institute's focal research areas</b></p>	<p>Photonics – applications of optics in information processing, biology and medicine – has recently achieved a highly developed state that allows to consider the actual century as the "century of the photon" that displaces the last century - the "century of the electron".</p> <p>Photonics is therefore one of the most promising technologies of the future, and driving motor for many industry applications of optical technologies which are nowadays already used e.g. in optical data storage as for CDs and DVDs, in optical illumination with LEDs or OLEDs, or in optical communication using optical fibers.</p> <p>Nonlinear optical effects allow to amplify, control, and steer light in order to realize complex information processing tasks. They require the understanding and control of nonlinear effects as well as tailoring light for the purpose of application. Using nonlinear optical processing features, we can use light as the carrier of information of the future.</p> <p>Our actual research activities are centered around this vision, based on two major focus lines - nonlinear optical applications in information, biology and medicine, and photonic circuits by light is guiding light.</p> <p>In this field, we are offering places for PhD students or Master students in the following fields:</p> <ul style="list-style-type: none"> <li>• Investigations of cell elasticity by optical tweezers</li> <li>• Development of tailored light fields for holographic optical trapping</li> <li>• Optical micro sensors for customized light fields</li> <li>• Realization of polymer structures by dielectrophoresis</li> <li>• Nonlinear light localization in photonic crystal structures</li> <li>• Nondiffracting and caustic beams as tools for photonic lattices</li> <li>• Nonlinear integrated optics by direct femtosecond laser writing</li> <li>• Nonlinear microscopy</li> <li>• Grating-assisted nonlinear frequency conversion</li> </ul>
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# 7

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Classical archaeology and Christian archaeology / archaeological museum	Sophia Nomicos, M. A. <a href="mailto:nomicos@uni-muenster.de">nomicos@uni-muenster.de</a> Tel.: 0251/83-24586  Dr. Pamela Bonnekoh <a href="mailto:pbonnek@uni-muenster.de">pbonnek@uni-muenster.de</a> Tel.: 0251/83-24585	1	Classical archaeology          Christian archaeology	B, M, Ph.D.          B, M, Ph.D.
<b>Time frame:</b>	May-July October-December			
<b>Institute's focal research areas</b>	Classical Archaeology, Hellenistic and Roman Near East, Architecture, Numismatics, Sculpture.  Early Byzantine Archaeology.			

# 8

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute of Infectiology – ZMBE <a href="https://campus.uni-muenster.de/zmbe/die-institute-des-zmbe/inst-fuer-infektiologie/">https://campus.uni-muenster.de/zmbe/die-institute-des-zmbe/inst-fuer-infektiologie/</a>	Prof. Dr. M. Alexander Schmidt <a href="mailto:infekt@uni-muenster.de">infekt@uni-muenster.de</a> Tel.: +49 251 83 56466  Dr. Christoph Cichon <a href="mailto:cichon@uni-muenster.de">cichon@uni-muenster.de</a> Tel.: +49 251 83 52130	1	Molecular Biology Microbiology Cell Biology (English language skills necessary)	M, P
<b>Time frame:</b>	May – August (2-3 months)			
<b>Institute's focal research areas</b>	Effects of probiotic bacteria on the cellular responses of human epithelial cells in 3D tissue culture models.			

## Muenster University of Applied Sciences

The FH Muenster – Muenster University of Applied Sciences was founded in 1971 out of public and private schools and has developed to a modern, achievement-oriented and science-oriented university.

FH Muenster is with around 14,000 students and 12 faculties/central research institutions one of the biggest institutions of its kind in Germany.

The departments and institutions are located at different places in Muenster and Steinfurt.

A special service for foreign students is offered to make students' life easier and to integrate them successfully into everyday life at the university (FHiRST – FH international Reception Service Team).

Internet: [www.fh-muenster.de](http://www.fh-muenster.de)

Language Courses from A2 - B2.

In cooperation with local language schools, flexible dates according to student's availability.

**Contact:** International Office  
Nadine Pantel  
Johann-Krane-Weg 25  
48149 Münster  
Phone +49 251 83 64119  
Email: [Nadine.pantel@fh-muenster.de](mailto:Nadine.pantel@fh-muenster.de)

# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (M = Master, P = PhD)
Department of Mechanical Engineering Laboratory for Thermal and Power Engineering	Prof. Dr.-Ing. habil. Stefan aus der Wiesche Stegerwaldstr. 39 48565 Steinfurt Raum: N 130 Tel: 02551 9 62272 <a href="mailto:wiesche@fh-muenster.de">wiesche@fh-muenster.de</a>	1	Mechanical Engineering  Good English skills are required.	B,M PhD possible (together with University of Paderborn)
<b>Time frame:</b>	No limitation			
<b>Institute's focal research areas</b>	<p>All research projects are dealing with fluid mechanics and heat transfer (both experimental and theoretical research).</p> <p>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.</p> <p>The following projects are currently open for the present initiative:</p> <ul style="list-style-type: none"> <li>- Boiling heat transfer and investigation of microscale flow phenomena</li> <li>- Convective heat transfer from rotating disks</li> <li>- Flow separation and reattachment of a turbulent boundary layer</li> </ul> <p>Further information is available (see corresponding internet page of the lab):</p> <p><a href="https://en.fh-muenster.de/maschinenbau/labore/waermetechnik/waermeteknik.php">https://en.fh-muenster.de/maschinenbau/labore/waermetechnik/waermeteknik.php</a></p>			



## University of Paderborn

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 1.360 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 20.200 students currently studying at the University, among them about 2.170 international students.

[www.uni-paderborn.de](http://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 (ca. 100 €). Another course of 10 hours per week runs during the semester (ca. 200 €). These offers are subject to change due to a currently ongoing restructuring of our German courses.

Please contact International Office, Paderborn

Web: [www.upb.de/studium/international-office/deutschkurse/](http://www.upb.de/studium/international-office/deutschkurse/)

**Contact:** Kerstin Ollech  
International Office, Paderborn University,  
Warburger Straße 100, D-33098 Paderborn  
phone: +49 (5251) 60 36 38  
e-mail: [ollech@zv.upb.de](mailto:ollech@zv.upb.de)

# 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B= Bachelor; M= Master; P= PhD)
Department of Philosophy, Center for the „History of Women Philosophers and Scientists“	Prof. Dr. Ruth Hagenruber phone: +49 (5251) 60 23 08 e-mail: ruth.hagenruber@upb.de	1	History of Women Philosophers, Philosophy of Economics	M, P
<b>Time frame:</b>	May – July 2018; or Sept. – Nov. 2018 (12 weeks)			
<b>Institute's focal research areas</b>	<p>(1) The Teaching and Research Area “History of Women Philosophers” has existed at Paderborn University since 2005 under the heading by Prof. Dr. Hagenruber. Its aim is to renew the long-lasting tradition of women philosophers. The Paderborn University offers unique opportunities to gain insight into the contributions of Woman Philosophers to the history of ideas. Info: <a href="http://historyofwomenphilosophers.org/">http://historyofwomenphilosophers.org/</a></p> <p>(2) The Teaching and Research Area “EcoTechGender” focuses on the interrelations between Economics, Technology, and Gender – the challenging and decisive factors of the future. Info: <a href="http://kw.uni-paderborn.de/fach-philosophie/forschung/ecotechgender/">http://kw.uni-paderborn.de/fach-philosophie/forschung/ecotechgender/</a></p>			

# 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B= Bachelor; M= Master; P= PhD)
Department of Physics, Faculty of Science	Prof. Dr. Arno Schindlmayr  E-Mail: arno.schindlmayr@uni-paderborn.de  Tel.: +49-5251-60-2338	1	Theoretical Physics, Applied Mathematics	M, P
<b>Time frame:</b>	12 Weeks from 1 October until 23 December 2018			
<b>Institute's focal research areas</b>	<p>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.</p>			

## University of Wuppertal

Bergische Universität 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.

<https://www.wuppertal.de/microsite/en/index.php>

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>

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.
- **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:

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[www.internationales.uni-wuppertal.de](http://www.internationales.uni-wuppertal.de)

**# 1**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program</b> (B= Bachelor; M= Master; P= PhD)
Center for international studies in social policy and social services <a href="http://www.sozpaed.uni-wuppertal.de/sozialpolitik/">http://www.sozpaed.uni-wuppertal.de/sozialpolitik/</a>	Prof. Dr. Heinz SÜNKER Email: <a href="mailto:suenker@uni-wuppertal.de">suenker@uni-wuppertal.de</a> Phone: +49 (0)202 439-2295	1	Social Sciences; Education; Social Policy; Social Work; Migration; Gender; Social Sciences and Law	M, P
<b>Time frame:</b>	May to July or October to December			
<b>Institute's focal research areas</b>	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.			

**# 2**

<b>Institute</b>	<b>Contact at the institute</b>	<b>Number of places</b>	<b>Discipline or subject area</b>	<b>Scholars' degree program</b> (B= Bachelor; M= Master; P= PhD)
Mechanical Engineering – Engineering Design	Prof. Dr. Peter GUST Email: peter.gust@uni-wuppertal.de Phone: +49 (0)202 439-2046	1	Mechanical Engineering	M, P
<b>Time frame:</b>	April – mid July			
<b>Institute's focal research areas</b>	<ul style="list-style-type: none"><li>• Robust design of mechatronic products</li><li>• Product Development: Methods and tools</li><li>• Quality management in development</li><li>• Knowledge management with Wiki systems,</li><li>• Development of multi-articular systems</li><li>• Tolerance analyses and tolerance management</li></ul>			