



**Scholarship Program
of the German State of North Rhine-Westphalia
for students from the Hashemite Kingdom of Jordan**

Call 2019

**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 online.*

Please consider the time frames offered by the host universities.

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Heinrich-Heine-University Duesseldorf

International Office

Universitaetsstrasse 1

D-40225 Duesseldorf

Germany

Ms. Leona Schmitz (LL.M.)

Phone: +49 (0) 211 / 81 15730

Email: nrw-scholarship@hhu.de

Bielefeld University

Bielefeld University was founded in 1969 with an explicit research assignment and a mission to provide high-quality research-oriented teaching. With far-reaching aims to reform nearly every area of higher education, the University has made valuable contributions to educational reform in Germany and upholds its interdisciplinary, innovative and reform-oriented character to this day. The University encompasses 13 faculties covering a broad spectrum of disciplines in the humanities, natural sciences, social sciences, and technology. With more than 24,000 students in 115 degree courses and around 2,750 staff members (including 269 professors and lecturers as well as 1,390 academic staff) it is one of Germany's medium-sized universities.

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

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

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Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (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, PhD
Time frame:	May – December 2019			
Institute's focal research areas	<ul style="list-style-type: none">• Philosophy of Science, History of Science, Economics of Scientific Knowledge, Medical Ethics			

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 800 international students.

During the *freshers' weeks (01—29- September 2019)* German language courses for guest students are organized for all levels. During the lecture time German courses are not necessarily for all levels available.

During the semester, the Faculty of Business and Health offers German Courses with the proficiency levels A1, A2, B1, B2, C1 as part of their curricula.

Summer term 2019: 1 April -14 June 2019

Winter term 19/20: 30 September '19 - 10 January '20

Important information: In order to benefit from all services the university has to offer (Bus ticket, wifi access, library ID etc.), we generally recommend that scholarship students should be enrolled at our institution for their stay. For technical purposes, this is only possible until 15 November (winter term) or 15 May (summer term). We recommend a scholarship start before these dates.

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

Contact: Hannah Möhring Contact person for incoming exchange students
Phone: +49-521/106-70093
Fax: +49-521/106-7726
E-Mail: hannah.moehring@fh-bielefeld.de
Bielefeld University of Applied Sciences,
Interaktion 1, 33619 Bielefeld, Germany

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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	M Master in Business Administration, Business Information Systems, Business Law and Business Psychology
Time frame:	01. May until 19. July or 23. September until 31. December			
Institute's focal research areas	Research questions in Business administration, Business Information Systems, Business Law and Business Psychology			

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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	M Architecture M Civil Engineering (classes only in German language)
Time frame:	01. May until 19. July or 09. September until 31. December			
Institute's focal research areas	<ul style="list-style-type: none"> - 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 			

Ruhr-University Bochum

Ruhr University Bochum (RUB), about 43,000 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

German language classes at RUB start in April (summer term) and October (winter term) each year, they are free of charge: **Fehler! Hyperlink-Referenz ungültig.**

International Office: www.international.rub.de

Contact: Ms. Jonna Haensel-Neumann,
International Office,
SSC 1/249, D-44780 Bochum, Germany
phone: +49 234 32 25425,
fax: +49 234 32 14684
email: jonna.haensel@uv.rub.de

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Department of Middle Eastern and Islamic Studies	Prof. Johann Buessow johann.buessow@rub.de	1	Middle Eastern and Islamic Studies	M, PhD
Time frame:	May – December 2019			
Institute's focal research areas	History of the modern Middle East (1500 to the present); intellectual history of the Islamic world (from the mediaeval to the modern period)			

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Chair for Tunnelling and Construction Management	Annika Jodehl, M.Sc. annika.jodehl@rub.de +49 (0)234 32-21412	1	Civil Engineering / Environmental Engineering / Geosciences PC knowledge (MS Office) necessary.	M, PhD
Time frame:	October - December (01.10. – 20.12.2019)			
Institute's focal research areas	soil conditioning for EPB and slurry shields, process simulation, cost-risk analysis, shotcrete laboratory experiments, tunnel safety, separation of used slurries.			

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Clinical Neuropsychology	Prof. Dr. Boris Suchan boris.suchan@rub.de	1	Neuro- psychology, Cognitive Neuroscience	M, PhD
Time frame:	May – July; October – December 2019			
Institute's focal research areas	<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 (http://www.ruhr-uni-bochum.de/neuropsych/).</p>			

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M= Master; P= PhD)
Center for Mind & Cognition (formerly, CMBC) Department of Philosophy	Prof. Dr. Markus Werning Markus.Werning@rub.de Chair of Philosophy of Language and Cognition	1	Philosophy Cognitive Science Linguistics	M, PhD
Time frame:	May – July; September – December 2019			
Institute's focal research areas	Philosophy Cognitive Science Linguistics			

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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	M, PhD
Time frame:	May—July 15 th , 2019			

Institute's focal research areas	<p>Metaphysics & Philosophy of Science Philosophy of Biology and Medicine, Biomedical Ontology, Social Ontology, Applied ontology</p> <p>Possible topics: - the ontology of artificial organisms, - philosophy of biomimetics - evolution and creation - formal-ontological descriptions of religion - faith and reason.</p>
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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 albert.newen@rub.de ;	1	Theoretical Philosophy: Mind, Logic, Language, Epistemology Ancient Philosophy	M Philosophy (Courses are in English or German)
Time frame:	May – December 2019			
Institute's focal research areas	The institute is specialized in Philosophy of Language, Mind and Science. It is also offering Logic and Epistemology.			

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-brs.de

Contact: Stefanie Fey
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
welcome.centre@h-brs.de

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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, PhD
Time frame:	Arrival: First days of July, August or September 2019, minimum stay: 10 weeks			
Institute's focal research areas	<p>The work deals with human stem cell differentiation and their signalling pathways.</p> <p>Overview:</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> <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.</p>			

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.

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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	M, PhD
Time frame:	Arrival: July 1 st , August 1 st or September 1 st , 2019 minimum stay: 12 weeks			
Institute's focal research areas	<p>The work deals with:</p> <ul style="list-style-type: none"> 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) <p>The work encompasses the following topics for potential scholarship holder:</p> <ul style="list-style-type: none"> • 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 			

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 35000. 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

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: Ms. Leona Schmitz (LL.M.)
International Office
Heinrich-Heine-Universitaet Duesseldorf
International Office (Building 21.02)

UniversitaetsstraÙe 1, D-40225 Duesseldorf
Phone: +49-(0)211/81-15730
E-mail: nrw-scholarship@uni-duesseldorf.de

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute for Jewish Studies	Prof. Dr. Marion Aptroot aptroot@phil.hhu.de Tel. 81-13228	1	Yiddish Studies (including interdisciplinary studies)	M, PhD
Time frame:	May - December 2019			
Institute's focal research areas	Yiddish: Yiddish Language, Yiddish Literature and Culture, Yiddish Linguistics			

2

Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute for Quantitative Genetics and Genomics of Plants	Prof. Dr. Benjamin Stich	1	Biology, Bioinformatics, Agricultural sciences or related disciplines	M, PhD
Time frame:	May 02 nd until December 31 st , 2019			
Institute's focal research areas	Population genetic & quantitative genetic analyses, bioinformatic analyses of sequence data, performance of field experiments			

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 (once a week; 12-14 days per course) of different levels can be visited on campus.

Contact:

Gabriele Weiland
Corporate Development Department (UE)
Forschungszentrum Jülich GmbH
D-52425 Jülich, Germany
Phone: +49 – (0)2461 – 61.3388
e-mail: g.weiland@fz-juelich.de

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
INM-2	Prof. Dr. A. Bauer Dr. S. Beer Phone:+49-(0)2461-61-1954; e-mail: si.beer@fz-juelich.de	1	Physics, Mathematics, Biomedical Engineering, Computer Science	M, PhD
Time frame:	01.10.-22.12.2019			
Institute's focal research areas	<p>Our research interests involve the methodology for <i>in vivo</i> receptor imaging of brain functions with positron emission tomography (PET) and the combination with complementary imaging modalities like CT and MRI. This includes amongst others the development and validation of software algorithms and correction methods for high quality image reconstruction, strategies to improve image quantitation accuracy, development of novel instrumentation for dedicated applications, and simulation and modelling of PET components and systems.</p> <p>The focus for the scholarship project is to take part in the development of methodology to provide the best possible image 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. More information is available at http://www.fz-juelich.de/inm/inm-2/</p>			

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

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute of New Testament Studies	Prof.es Eve-Marie Becker/ Christina Hoegen-Rohls Tel: 49 (0) 251 83-22535 beckerev@uni-muenster.de Tel: +49 (0) 251 83-29245 c.hoegen-rohls@uni-muenster.de	1	Bible Studies/ Early Christian Studies (Biblical Greek is needed)	M, PhD (Biblical Greek skills have to be available)
Time frame:	May – July 2019			
Institute's focal research areas	Early Christian studies with a focus on either: -Pauline studies and/or studies in ancient epistolography -Gospel studies (esp. Mark and John) and/or ancient historiography -constructs of time in ancient and Biblical thinking -Biblical hermeneutics and reception history			

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B = Bachelor; M = Master; P = PhD)
Institute of Applied Physics, Nonlinear Photonics group	Prof. Dr. Cornelia Denz, Director denz@uni-muenster.de Tel. +49 251 8333518 Fax. +49 251 8339811 http://www.nonlinear-photonics.de	1	Physics; Optics; El. Engineering	M, PhD
Time frame:	June – October 2019			

<p>Institute's focal research areas</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"> • Investigations of cell elasticity by optical tweezers • Development of tailored light fields for holographic optical trapping • Optical micro sensors for customized light fields • Realization of polymer structures by dielectrophoresis • Nonlinear light localization in photonic crystal structures • Nondiffracting and caustic beams as tools for photonic lattices • Nonlinear integrated optics by direct femtosecond laser writing <p>Nonlinear microscopy</p>
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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

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

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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 wiesche@fh-muenster.de	1	Mechanical Engineering Good English skills are required.	M, PhD (possible together with University of Paderborn)
Time frame:	May – December 2019			
Institute's focal research areas	<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"> - Boiling heat transfer and investigation of microscale flow phenomena - Convective heat transfer from rotating disks - Flow separation and reattachment of a turbulent boundary layer <p>Further information is available (see corresponding internet page of the lab):</p> <p>https://en.fh-muenster.de/maschinenbau/labore/waermetechnik/waermetechnik.php</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

Language courses: 4 weeks crash course of 20 hours per week; begins before the official start of the semester in March and in September. Another course of 10 hours per week runs during the semester. 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/

Contact: Kerstin Ollech
International Office, Paderborn University,
Warburger Straße 100, D-33098 Paderborn
phone: +49 (0) 5251 60 36 38
e-mail: ollech@zv.upb.de

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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 (0) 5251 60 23 08 e-mail: ruth.hagenruber@upb.de	1	History of Women Philosophers, Philosophy of Economics	M, PhD
Time frame:	Sept. – Nov. 2019 (12 weeks)			
Institute's focal research areas	<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: http://historyofwomenphilosophers.org/</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: http://kw.uni-paderborn.de/fach-philosophie/forschung/ecotechgender/</p>			

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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 (0)-5251-60-2338	1	Theoretical Physics, Applied Mathematics	M, PhD
Time frame:	12 Weeks from 1 October until 20 December 2019			
Institute's focal research areas	<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 C1 (advanced). Weekdays daily beginning in April and October each year with 30 hours per week.
- German Courses in the evening for international guests beginning in October. Levels: A1, A2, B1. Sessions of three hours each will be held twice a 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:

Andrea Bieck
Head of International Office
Bergische Universität Wuppertal
Gauss-Str. 20, 42119 Wuppertal, Germany
Phone: +49 (0) 202 439 2181 / Fax: +49 (0)202 439 3856
Email: bieck@uni-wuppertal.de

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (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, PhD
Time frame:	May – mid July 2019			
Institute's focal research areas	<ul style="list-style-type: none"> • Robust design of mechatronic products • Product Development: Methods and tools • Quality management in development • Knowledge management with Wiki systems, • Development of multi-articular systems • Tolerance analyses and tolerance management 			

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B= Bachelor; M= Master; P= PhD)
Research group Experimental Particle Physics	Prof. Dr. Wolfgang WAGNER Email: wagner@uni-wuppertal.de Phone: +49 (0)202 439-2861	1	Physics	M, PhD
Time frame:	May 1 st – November 30 th , 2019			

<p>Institute's focal research areas</p>	<p>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:</p> <ul style="list-style-type: none"> a) data analysis in top quark physics, or b) digital electronics for detector readout. <p>In the analysis project, the student will work on studies based on simulated events, preparing analyses to search for additional (new) heavy particles which decay to top quarks. The aim is to obtain a basic understanding of the event kinematics depending on the mass of the new particle. Alternatively, the student can also choose to work on studies supporting a high precision measurement of the top-quark mass in single top-quark events observed with the ATLAS detector.</p> <p>In the hardware project, the student will work together with researchers preparing a future upgrade of the ATLAS pixel detector to cope with higher readout bandwidth. The student will learn how to layout a small printed circuit board used at a test stand we operate here in Wuppertal. The test setup mimics conditions expected at the high luminosity LHC regarding the data rates and is based on hardware built for a recent upgrade of the ATLAS pixel detector.</p>
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University of Applied Sciences and Art Dortmund

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 about 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 is a possibility to attend term-accompanying German courses offered by the Career Service of the FH Dortmund in cooperation with the Auslandsgesellschaft Intercultural Academy gGmbH Dortmund (B1 level). Attendance in the courses of the Career Service (B1 level) is only possible if the scholarship holder comes at the beginning of the semester and there are still free seats. In winter semester there is also possibility to attend German courses for English taught Master programmes (A1 level). If applicable we can also try to book a private course at VHS Dortmund. However there is no guarantee for a German course.

Contact: Mrs. Aleksandra Wojciechowska
Room A010
Sonnenstraße 96
44139 Dortmund
Telefon: 0049 231/ 9112-8130
Email: aleksandra.wojciechowska@fh-dortmund.de

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (B= Bachelor; M= Master; P= PhD)
Faculty of Mechanical Engineering (Machinenbau)	Prof. Dr. rer. nat. Tamara Appel	1	Mechanical Engineering	M
Time frame:	02 May – 31 December 2019			
Institute's focal research areas	<p>The researching group at Fachhochschule Dortmund/ Dortmund University of Applied Sciences and Arts work on additive manufacturing for metal parts by selective laser melting (SLM). This highly sophisticated technique is one of the most challenging techniques known as 3D printing. The group works on the development of new materials for applications like medical implants, engines etc. The raw material powders need to be characterised in order to understand the influencing parameters for materials characteristics like corrosion resistance or mechanical stiffness. The applicant could work out 3D models which are of special interest within their homes university and print and characterise the finished products in Germany.</p>			

University of Aachen (RWTH)

Building on its interdisciplinary scientific culture, RWTH Aachen University has committed itself to contributing to solving the grand challenges of our time. To this end, RWTH will continue to undertake groundbreaking, responsible research and further enhance the quality and international visibility of its research output. By implementing a wide range of digital teaching and learning concepts, RWTH will open up new dimensions in university teaching and create a new generation of highly qualified graduates.

In addition to research and teaching, RWTH will enforce innovation as a third pillar of its academic mission. The University sets out to develop into an internationally recognized hub for creative, bright minds, promoting young talents in an environment conducive to learning and working. It will provide fair opportunities and career paths in a diverse, globally connected workplace. In all its endeavors, RWTH strives to become – and continue to be – an excellent university with international visibility.

With over 260 academic institutes organized in nine faculties, RWTH Aachen University is among the leading European institutions of higher education and scientific research. Currently, more than 45,000 students are registered in at least one of the 175 study programs that the university offers. Among these students more than 10,000 internationals have joined us from 125 different countries.

Contact:

Bettina Dinter, Ass.d.L.
RWTH Aachen University
Turmstr. 46
52062 Aachen
Tel: +49 241 80-90812
bettina.dinter@zhv.rwth-aachen.de
www.rwth-aachen.de/internationales

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Institute	Contact at the institute	Number of places	Discipline or subject area	Scholars' degree program (M = Master, P = PhD)
Urban Development and Urban Design	Univ.-Prof. Reicher reicher@staedtebau.rwth-aachen.de 0049 241-8095033	1	Urban Design, Urban Planning	M
Time frame:	October – December 2019			
Institute's focal research areas	preparation of a doctoral project			