hhu Heinrich Heine Universität Düsseldorf

The State Government of North Rhine-Westphalia

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

Call 2020

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.

Contacts and further information

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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.

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#1	*RWTH Aachen University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institut fuer Textiltechnik (ITA)	Gözdem Dittel, M.Sc. Tel.: +492418024721 Goezdem.Dittel@ita.rwth-aachen.de	1	• very good skills in English or in German • very good MS Office skills • enthusiasm for innovative and interdisciplinary approaches • knowledge in the field of TRC will be an advantage	B.Sc.and M.Sc. in: • Mechanical Engineering • Civil Engineering • Electrical Engineering and Information Technology • Materials Engineering • Textile Engineering
Time frame:	01.05.2020 – 18.12.2020			
Institute's focal research areas	The installation and maintenance of water pipelines involve high costs in terms of transport, handling, logistics and monitoring. High-strength concrete with textile reinforcement is lighter, stronger, more durable, corrosion-resistant compared to steel reinforcements and offers an alternative to conventional building materials. The use of conductive fibres in the reinforcement as leakage sensors makes it possible to determine a leakage. This principle opens the way for research into sustainable hybrid textile reinforced concrete (TRC) pipe systems. With the aim of realizing an industrial production method for TRC pipes, a filament winding concept was developed at the ITA in order to be able to realize grid-shaped, textile based reinforcement structures with integrated sensory rovings for concrete pipes. Various development steps have to be executed to automatize the manual process steps and to realize a suitable machine for series production.You have the possibility to work in different tasks, e.g.:• development of a coating module integrated into the winding machine for the sensory textile reinforcement production for a TRC pipe. On this basis, you research into the existing online coating procedures for the textiles and adapt the most suitable principle to your concept. You select your coating materials, draw the coating equipment with the help of a CAD program and then build it up.• full automation of the filament winding process by machine programming• production and testing different smart TRC pipes on their electrical and mechanical properties• simulation of the existing loads in the TRC pipe structure in different conditions			

#2	*RWTH Aachen University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Didactics of Social Sciences	Prof. Dr. Christian Kuchler kuchler@ipw.rwth-aachen.de +49 (0)241 / 80–25442	1	Translation History Education German language knowledge required	B/M Translation B/M/P History
Time frame:	August-December 2020			
Institute's focal research areas	The research project focusses on the use of international historical newspapers in history education. The fellow student would be involved in the translation/analysis of international historical newspapers for educational purposes. In addition, the fellow student would do background research on the history of the press in different countries.			

#3	*RWTH Aachen University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Central Facility for Electron Microscopy (GFE)	Prof. Dr. Joachim Mayer mayer@gfe.rwth-aachen.de +49 241 8024350	1	Materials Science, Physics, Chemistry	B, M Preference will be given to students from the Technion at Haifa, in the framework of the existing Umbrella Cooperation.
Time frame:	July-December 2020			
Institute's focal research areas	The Central Facility for Electron Microscopy is active in many different areas of materials characterization and analysis. A special focus exists on materials for energy and for future information technology. Other areas include modern lightweight structural materials, functional materials and soft matter. Candidates will be integrated in ongoing research activities and will get the possibility to learn the elementary techniques of electron microscopy including sample preparation, operation of the instruments and data analysis.			

#4	*RWTH Aachen University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
III. Physical Institut	Prof. Stefan Roth roth@physik.rwth-aachen.de +49 241 80 27296	1	Physik	M, P
Time frame:	Mai-December 2020			
Institute's focal research areas	The internship could be done in one of the following projects: - Construction of a monitoring drift chamber for the T2K-Experiment at J-PARC (Japan) - Silicon-Strip detectors for the CMS experiment at CERN (Switzerland) - Development of a neutron detector for radiography			

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

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#1	***Bielefeld University***			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute for Interdisciplinary Studies of Science (I2SoS)	Prof. Dr. Martin Carrier	1	Philosophy of Science, History of Science, Sociology of Science, Economics of Scientific Knowledge, Medical Ethics	M,P
Time frame:				
Institute's focal research areas	Philosophy of Science, History of Science, Sociology of Science, Economics of Scientific Knowledge, Medical Ethics			

#2	***Bielefeld University***			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Faculty of Physics	Prof. Dr. Armin Gölzhäuser ag@uni-bielefeld.de Tel. +49 521 106-5362	1	Physics, Chemistry	M,B
Time frame:	April-December 2020			
Institute's focal research areas	Supramolecular Physics Carbon Nanomembranes Membrane Characterization Helium Ion Microscopy			

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
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#1	*University of applied science Bielefeld*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
	Prof. Dr.-Ing. Johannes Weinig +49-571 71195 johannes.weinig@ fh-bielefeld.de	1	Civil Engineering or Architecture	- B Architecture - B Civil Engineering - M Architecture - M Civil Engineering (classes only in German language)
Time frame:	09.03 - 17.07.2020 (3 months) or 07.09. – 31.12.2020			

Institute's focal research areas	Important: Scholarship holders should have previous knowledge in German language
	
	- Surveying methods and skills
	- Construction of plain light buildings (e.g. sports halls or stadiums)
	- Water engineering and water management
	- Micro- and ultra-filtration methods
	- Construction, Energy, Environment:
	  - water engineering including water preparation
	  - energetic building restoration with alternative energy concepts			

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: http://www.daf.ruhr-uni-bochum.de

International Office: www.international.rub.de

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#1	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Middle Eastern and Islamic Studies	Prof. Dr. Johann Büssow, johann.buessow@rub.de	1	Middle Eastern Studies, Jewish/Israel Studies, History, Social Anthropology, Political Science, Cultural Studies	M, PhD
Time frame:	During the lecture periods 2020: 2 May-17 July 2020; 12 October-23 December 2020			
Institute's focal research areas	- History of the modern Middle East (18th-20th centuries), - History of the Ottoman Empire, - History of Syria, - History of Palestine and the Palestinians, - History of Oman; - Urban history; - History of rural communities, especially the Bedouins; - History of concepts and Historical Semantics; - Intellectual history of the modern Islamic World.			

#2	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (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,P
Time frame:	October – December (01.10.2020 – 20.12.2020)			
Institute's focal research areas	soil conditioning for EPB and slurry shields (tunneling), process simulation, cost-risk analysis, shotcrete laboratory experiments, tunnel safety, separation of used slurries			

#3	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of History	Prof. Dr. Markus Koller, Chair in History of the Ottoman Empire and Modern Turkey, markus.koller@rub.de	1	History	M, P
Time frame:	May - July 2020			
Institute's focal research areas	Ottoman History, Mediterranean History			

#4	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute for Philosophy II	Prof. Dr. Albert Newen	1	Theoretical Philosophy: Mind, Logic, Language, Epistemology, Experimental Philosophy, Ancient Philosophy	Master Philosophy (Courses are in English or German)
Time frame:	April bis Dezember 2020			
Institute's focal research areas	The institute is specialized in Philosophy of Language, Mind and Science. It is also offering Logic and Epistemology as well as Ancient Philosophy			

#5	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
English Department	Prof. Dr. Burkhard Niederhoff burkhard.niederhoff@rub.de +49 234 32 25051	1	Literary Studies and Film Studies	Master and Ph.D.
Time frame:	May 1 to July 20; September 1 to December 31			
Institute's focal research areas	Narrative Theory, Closure in Literature and Film (students should be able to communicate in English)			

#6	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Philosophy and/or Research Group "Memory"and/or Center for Mind & Cognition	Prof. Dr. Markus Werning, Chair of Philosophy of Language and Cognition Department of Philosophy, Ruhr University Bochum 44780 Bochum, Germany markus.werning@rub.de	1	PhilosophyCognitive ScienceLinguistics	B M PhD
Time frame:	May-July or September-December			
Institute's focal research areas	Topics: Philosophy of Language and Mind, Epistemology, Semantics, Pragmatics, Memory Research Methods: Concepts, Bayesian Models, EEG, Computational Modelling			

#7	*Ruhr-University Bochum*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute of Geology, Mineralogy & Geophysics, Chair for Applied Geology / Hydrogeology	Prof. Dr. Stefan Wohnlich	1	Hydrogeology	M PhD
Time frame:	2 May – 15 July 2020 or 1 September – 30 November 2020			
Institute's focal research areas	HYDROGEOLOGY To enhance our understanding of flow, chemical reactions and transport in groundwater, we teach, develop and perform numerical, field and laboratory studies. The latter aim at investigating methods, which allow for better monitoring and prediction of processes in groundwater. Our research contributes to the ongoing challenge of managing sustainable use of groundwater and aquifers. The applicant will be involved in active research groups, dealing with groundwater related scientific projects such as: • Groundwater contamination in urban areas • Nitrate contamination in rural areas • Developing new groundwater models • Hydro chemical analyses • Field experiments • Acid mine drainage • Groundwater management in mining areas			

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

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#1	Hochschule Bonn-Rhein-Sieg (HBRS) University of Applied Sciences			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Natural Sciences	Prof. Dr. Margit Schulze, Organic and Polymer Chemistry	1	Chemistry / Material Science	B, M, P
Time frame:	Arrival: June 1st or July 1st or August 1st 2020, minimum stay: 12 weeks			
Institute's focal research areas	The work deals with: a) development of polymer scaffolds for stem cell differentiation and proliferation b) development of polymers used in regenerative medicine (tissue engineering and drug release) c) development of polymeric materials from renewable resources (biomass) The work encompasses the following topics for potential scholarship holder: • Synthesis of appropriate polymers (e.g. biopolymers such as microspheres and hydrogels) • Characterization of polymer structure • Surface modification / functionalization • Bioactivation of the scaffolds (e.g. ligand coupling) • Biocompatibility testing			

#2	*Hochschule Bonn-Rhein-Sieg (HBRS) University of Applied Sciences*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Natural Sciences	Prof. Dr. Edda Tobiasch	1	Biology	M, P
Time frame:	Arrival: First days of July, August or September 2020, minimum stay: 10 weeks			
Institute's focal research areas	The work deals with human stem cell differentiation and their signalling pathways. Overview: Recent progress in our understanding of stem cell differentiation and cell transplantation has opened new therapeutic avenues in the treatment of human diseases involving chronic or acute tissue-specific cell loss. Consequently, experimental cell replacement strategies have been attempted involving adult stem cells with the aim of developing therapies. Human mesenchymal stem cells which are isolated from adipose tissue have the advantage of potential autologous transplantation ability. There is 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. 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, as well as osteoporosis (key word: drug targets). We also differentiate the stem cells in the adipogenic direction to develop an in vitro model for the onset of atherosclerosis and towards endothelial and smooth muscle cell for a better understanding of angiogenesis. In another project ecto-mensenchymal stem cells derived from dental follicles of wisdom teeth are used to find strategies improving dental implant stability. Other studies involve iPS cells, 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. Other information 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, four PhD students, and Master- and Bachelor students working on their theses. One of the PhD students will take care for the guest student.			

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 German language courses available this year.

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#1	*TU Dortmund University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Chair of English Linguistics (Multilingualism), Faculty of Cultural Studies	Prof. Sarah Buschfeld, sarah.buschfeld@udo.edu, 0049 231 755 2888	1	English Linguistics, Multilingualism	M, PhD
Time frame:	September till June			
Institute's focal research areas	English Linguistics: Multilingualism; World Englishes; Language variation, contact, and change; Language Acquisition (First-, second-, bi-/multilingual acquisition)			

#2	*TU Dortmund University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department for English and American Studies	Prof. Dr. Walter Grünzweig	1	American Studies, Cultural Studies and related fields	B, M, PhD
Time frame:	October – December 2020			
Institute's focal research areas	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			

#3	*TU Dortmund University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Fakultät Physik Lehrstuhl für Experimentelle Physik IV	Prof. Dr. Kevin Kröninger Kevin.kroeninger@tu-dortmund.de 0231/755-3544	1	Physics Medical Physics	M, P
Time frame:	15.01. – 15.12.2020			
Institute's focal research areas	The working group places a focus on experimental particle physics as well medical physics and dosimetry. Potential topics for this program will come from the realm of dosimetry. We develop a new high-throughput dosimeter system, TL-DOS, that is based on the principle of thermoluminescence. A participation in this project can include laboratory measurements, simulation studies and data analysis, all based on your skills, experience and interests. The project offers the potential to give an insight into the field of dosimetry and also into modern methods used in (medical) physics that useful for further studies in academia or industry. The work is conducted in a team of very motivated students and staff with a long-standing experience in supervision.			

#4	*TU Dortmund University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Chair of English Linguistics, Faculty of Culture Studies	Prof. Patricia Ronan, patricia.ronan@udo.edu, 0049 231 755 2904	1	English Linguistics, Celtic Linguistics	M, PhD
Time frame:	September till June			
Institute's focal research areas	English Linguistics: Language variation, Language contact, language change, multilingualism, language attitudes, language and identity Celtic Linguistics: Language contact, language change, multilingualism, grammar of Celtic, esp. Goidelic, languages.			

Dortmund University of Applied Sciences

The 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
- Information Technology

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.

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#1	*Dortmund University of Applied Sciences*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Faculty of Mechanical Engineering (Machinenbau)	Prof. Dr. rer. nat. Tamara Appel	1	Mechanical Engineering	M
Time frame:	02.05.2020- 31.12.2020			
Institute's focal research areas	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.			

#2	*Dortmund University of Applied Sciences*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Fachbereich Informationstechnik, University of Applied Science and Arts Dortmund	Prof. Dr. Benjamin Menküc, benjamin.menkuec@fh-dortmund.de	1	Electrical Engineering, Information technology, Biomedical technology Good German and/or English skills are required	B + M + P(Electrical Engineering, Information technology, Biomedical technology)
Time frame:	SS 2020 und WS 2020/2021 02.05.2020 – 31.12.2020			
Institute's focal research areas	Our Research focuses on low field magnetic resonance imaging. We are currently participating in an international project to build a tabletop MRI that is equipped with permanent magnets (https://tabletop.martinos.org). The Laboratory for Electromagnetic Imaging has a wide range of modern equipment that allows us to do most of the electrical developments and prototype testing in house. Tasks performed in our lab are for example: - PCB design and simulation - Rapid prototyping, assembling PCBs - Performing HF measurements with vector network analyzers - 3D magnetic field mapping - Software Defined Radio with Red Pitaya - Drawing of CAD models for mechanical fabrication Visiting Scientists and Students can choose a topic from the list above based on their interests. If you want to know further details, please contact Prof. Dr. Benjamin Menküc (benjamin.menkuec@fh-dortmund.de).			

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.

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#1	*Heinrich Heine University Düsseldorf*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (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)	B, M, P
Time frame:	May – December 2020			
Institute's focal research areas	Yiddish: Yiddish Language, Yiddish Literature and Culture, Yiddish Linguistics			

#2	*Heinrich Heine University Düsseldorf*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Condensed Matter Physics Laboratory www.softmatter.hhu.de	Prof. Dr. Stefan Egelhaaf +49 211 81-14325 stefan.egelhaaf@hhu.de	1	Physics, (Physical) Chemistry or neighboring subject, good command of English	B, M, P Physics, Chemistry, Chem. Engineering or neighboring subject
Time frame:	May – December 2020 after mutual agreement			
Institute's focal research areas	Manipulating Colloidal Particles with Light Colloidal particles with a size of about a micron and suspended in a liquid undergo a random motion, so-called Brownian motion. Their motion can be manipulated using light. This allows us to trap and move individual particles without directly interfering with the sample. A share of the 2018 Nobel prize in Physics was awarded to Arthur Ashkin for developing this technique, known as optical tweezers. In our group, we exploit this possibility in several ways. For example, optical tweezers can be used to create specific particle arrangements. After the tweezers are deactivated, the particles move from their 'artificial' positions to their equilibrium positions. This motion can be followed by optical microscopy and subsequently analyzed quantitatively and systematically. Instead of the particle positions, also the particle dynamics can be modified by exposing the particles to extended, modulated light fields. Again, we observe the modification of the dynamics by modern microscopy and/or light scattering techniques. Out of this broad range of possibilities, together with the student we will select the project that appears most interesting and most promising to lead to exciting new results.			

#3	*Heinrich Heine University Düsseldorf*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute for Competition Law (IKartR)	Akad. Rat a.Z. Dr. Patrick Hauser E-Mail: patrick.hauser@hhu.de Tel.: 0211/81-10630	1	Law, Advanced Learner of German Language (Grade B2 or higher of the Common European Framework of references for languages)	M, preferably Ph.D.
Time frame:	May, June, July			
Institute's focal research areas	The research focus lies in the field of German and European Competition Law including the neighbouring fields of German and International Business Law. Most publications are in German, some in English.The applicant should intend to use the scholarship to further his/her own research project which should be in the field of the institute's research focus. Therefore, the applicant is asked to present his/her research project in an exposé. The exposé should contain an overview of the research project and answer the question how German or European law has an impact on the issue. Also, the applicant should explain how a visit at the institute would promote the research project.The applicant will have the opportunity to present his/her research project, to discuss it at the institute and to be given guidance as to questions of German and European law. Nevertheless, it will in principle be expected that the applicant will work on his/her research project independently. It may also be possible for the applicant to become involved in research projects conducted at the institute.			

#4	*Heinrich Heine University Düsseldorf*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute for Quantitative Genetics and Genomics of Plants	Prof.Dr. Benjamin Stich	1	Agricultural Biology, Biology	B, M
Time frame:	April-August			
Institute's focal research areas	Screening of multiple barley populations for agronomically relevant traits and statistical analyses of these data Our research Most traits of agronomic importance are quantitative traits, i.e. the phenotypic observations cannot be assigned to distinct classes but follow a continuous distribution. This is caused by a polygenic inheritance as well as the importance of genotype*environment interaction for such traits. The work of the Institute for Quantitative Genetics and Genomics of Plants aims to identify the causes of natural phenotypic variation of crop plants on a molecular level, in order to attain the ultimate goal of our work - the prediction of phenotypic performance under various environmental conditions. This requires combined efforts on creating novel plant material, exploiting the possibilities of *omics technologies, and developing innovative biostatistical procedures.			

#5	*Heinrich Heine University Düsseldorf*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute of Art History	Prof. Dr. Andrea von Hülsen-Esch	1	Art history	M, P
Time frame:	April – July or October- December			
Institute's focal research areas	Medieval art history, treasure art, Methods of Art History, Medieval sculpture, Ageing as a topic of art, materiality, social history of art			

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-due.de/international/

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

www.uni-due.de/international/deutschkurse.shtml

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#1	*University of Duisburg-Essen*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Neurology; Experimental Neurology	Prof. Dr. Dagmar Timmann-Braun Associate Professor of Experimental Neurology Department of Neurology University Clinic Essen University of Duisburg-Essen Hufelandstrasse 55 45147 Essen Tel : +49 (0)201 723 6508 Fax : +49 (0)201 723 5901 Email: dagmar.timmann-braun@uni-due.de Internet: https://neurologie.uk-essen.de/unsere-forschung/professuren/experimentelle-neurologie/	1	Neuroscience, Neuropsychology, Biomechanics	B, M
Time frame:	12 weeks within May-Dec 2020			
Institute's focal research areas	Clinical Neuroscience; Physiology and pathophysiology of the human cerebellum; Behavioural studies in patients with cerebellar disorders; Structural and functional MRI in patients and controls. Part of the projects in our lab are done in collaboration with Prof. Opher Donchin, Department of Biomedical Engineering and Zlotowski Center for Neuroscience Ben-Gurion University of the Negev. Students will get the opportunity to learn about behavioural studies in patients with ataxia including joining the ataxia clinic, MRI-studies and hands-on data analysis			

Research Center Juelich

Forschungszentrum Jülich makes a vital contribution to solving major challenges facing society in the fields of information, energy, and bioeconomy. It focuses on the future of information technologies and information processing, complex processes in the human brain, the transformation of the energy system, and a sustainable bioeconomy. Forschungszentrum Jülich develops simulation and data sciences as a key research method and makes use of large, often unique, scientific infrastructures. Its work spans a range of topics and disciplines and it exploits synergies between the research areas. With some 6,100 employees, Jülich–a member of the Helmholtz Association–is one of Europe's large research centres.

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 6,100 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 organized in the context of our in-house training programme and are free of charge.

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#1	***Forschungszentrum Jülich***			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute of Complex Systems, Forschungszentrum Jülich, 52425 Jülich	Dr. Thorsten Auth, email: t.auth@fz-juelich.de, phone: +49 2461 61 1735	1	Physics, Chemistry, Biology	B, M, P
Time frame:	2 May to 15 December 2020			
Institute's focal research areas	Our institute works on the structure and dynamics of complex fluids, soft matter, and biological systems—from colloids and (bio)polymers to the motion of cells. Within the scholarship program, the student will perform numerical calculations to study interface-mediated interactions between particles: this can either be interactions between particles at fluid-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 cells, and the interaction of nanoparticles bound to cell membranes. Methodologically, calculations for particles at fluid interfaces and at lipid-bilayer membranes are closely related and can both be performed using triangulated surfaces. We will employ the freely available program package "Surface Evolver". Basic knowledge of Linux, bash scripting, a plotting program (e.g. gnuplot), and a programming language would be helpful, but are not required. The details of the project and the work plan for the student will be adjusted according to the area of study of the applicant.			

#2	*Forschungszentrum Jülich*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Central Institute of Engineering, Electronics and Analytics (ZEA) Electronic Systems (ZEA-2)	Dipl.-Ing. C. Grewing, Dr. M. Schiek	1	Electrical engineering, physics, computer science	B, M, PhD
Time frame:	May – December 18th, 2020			
Institute's focal research areas	Potential of Memristive Devices for ultra-low-power VLSI Circuits Memristor technology is assumed to play a leading role in the design and fabrication of new circuits to overcome the limits of conventional pure CMOS technology, e.g. performance and energy efficiency. Especially, in the field of brain-inspired computation the potential of memristor devices for reducing energy consumption has been widely analysed. We want to extend these analyses to applications with already existing solutions in standard CMOS technology. The target is to benchmark the potential of memristive devices with state of the art technology concerning both, energy as area consumption and performance to enable the identification of realistic scenarios for short- to mid-term commercial utilization of the energy saving potential. There are existing first approaches to use memristors for relevant improvements in RF applications or for advanced building blocks (e.g. ADCs). The main target of this project would be to work on a system concept (if possible under consideration of material system and integration) as well as an implementation issues for relevant applications aiming on a first prototype. These approaches are to be benchmarked concerning the above parameters with their state of the art counter parts based on simulations/literature and available devices on the market. The project is embedded in a starting cooperation with Electrical Engineering Faculty at Technion – Israel Institute of Technology.			

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 cooperates closely with people and institutions worldwide. The internationalization of teaching and research can be seen through joint programs with universities and colleges from abroad, double degree programmes, graduate schools, summer schools, short-time programmes, the binding of the (German and international) alumni. An important aspect of the strong international position of our university is the recruitment of qualified international students. Students who expect and fulfil high standards at the university, will find best studying conditions here.

Department of Neuropathology, University Hospital of Cologne, Cologne, Germany

The Dpt. of Neuropathology is responsible for clinical diagnosis of diseases of the nervous system by analysis of patients' samples (tumor biopsies, cerebrospinal fluid, muscle and nerve biopsies). In addition, we have a strong scientific impact in neuroimmunology/oncology. We study the pathogenesis of primary lymphoma of the central nervous system by analysis of patients' CNS lymphoma biopsies as well as in preclinical experimental murine models. Furthermore, we study the role of infectious agents in the pathogenesis of autoimmne inflammatory disorders of the nervous system. Finally, we are interested in the pathogenesis of inflammatory disorders of muscle and nerve which are addressed in patients' samples.

www.uni-koeln.de

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#1	*University of Cologne*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Neuropathology, University Hospital of Cologne, Cologne, Germany	Prof. Dr. Martina Deckert	1		M P
Time frame:	May and June, September through November			
Institute's focal research areas	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 can learn multiple modern immunological and molecular genetic techniques and learn how to implement these techniques in the scientific approach in order to dissect the pathogenesis of the diseases of interest.			

#2	*University of Cologne*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute of archaeology	Eckhard Deschler-Erb 0221/470-2889 edeschle@uni-koeln.de	1	Archaeology	M
Time frame:	Spring and Summer 2020			
Institute's focal research areas	Classical Archaeology, Hellenistic-Roman Archaeology, ancient trade systems, ancient production systems, working on prehistoric ceramics from Israel with natural science methods			

#3	*University of Cologne*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Historisches Seminar/Alte Geschichte	Prof. Werner Eck	1	Ancient History	all
Time frame:				
Institute's focal research areas	Epigraphy and Archaeology in the Near East between Alexander and 7th century AD			

#4	*University of Cologne*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Dept. f. Medien- und Technologiemanagement	Prof. C. Loebbecke	1	Information Systems	M / PhD
Time frame:	2020			
Institute's focal research areas	- advance and contribute his / her own study program /thesis etc. to work on one joint publication- conceptualizing the deployment of still innovative technologies (blockchain, virtual / augmented reality, AI / machine learning) in order to transform functions, sectors or disciplines- mix and mingle with practitioners in / around Cologne, ideally to start fruitful cooperation beyond the first stay			

#5	*University of Cologne*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institut für Strafrecht und Strafprozessrecht Universität zu Köln Albertus-Magnus-Platz 50923 Köln	Prof. Dr. Dr. h.c. Martin Waßmer martin.wassmer@uni-koeln.de 0221 470 4060	1	Criminal Law; Criminal Procedure Law	
Time frame:	8 – 12 Wochen			
Institute's focal research areas	Criminal Law; Criminal Procedure Law			

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

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#1	*University of Muenster (WWU Münster)*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Centre for Eastern Mediterranean Studies (GKM)	Prof. Dr. Reinhard Achenbach Dr. Nikola Moustakis gkm@uni-muenster.de +49 251 83-22572 +49 251 83-22531	1	Religious Studies, Jewish Studies, Eastern Mediterranean Studies	M
Time frame:	October - December			
Institute's focal research areas	The focus of research is on religious, historical, cultural, social and economic themes concerning the ancient Eastern Mediterranean region. The scholarship holder can use the excellent libraries, make contact with the scholars of the Centre of Eastern Mediterranean Studies to discuss his/her thesis and visit the regular courses (please note: the language of instruction is German). German language courses are offered by the University of Muenster (see above) and are strongly recommended to scholarship holders who don't know any or just a little German.			

#2	*University of Muenster (WWU Münster)*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
AFO Arbeitsstelle Forschungstransfer Robert Koch Str. 40 48149 Münster Tel. +49 251 83 3 2221	Contact person: Dr. Wilhelm Bauhus, Head of Office Email: bauhus@uni-muenster.de, Phone: +49 251 83 Irmgard Lobermann, Secretary Email: irmgard.lobermann@uni-muenster.de Phone: +49 251 8332221	1	Any. As we are a heterogenous team, the interest in research transfer as such should be the focus.	B = Bachelor or M = Master
Time frame:	September – Nov./Dez. 2020			
Institute's focal research areas	Science and Technology Transfer, strategies and methodologies for science communication and practical implementations, citizen science projects, bioinspiration, ideas mining and advice to inventors. (Specials 2020 in October /November Final festival Ostbevern bioinspirativ and Citizen Science Award) At least basic German would be asset. Working Language: English For an overview of the projects please consult our website https://www.uni-muenster.de/AFO/en/index.shtml https://www.uni-muenster.de/AFO/index.shtml			

#3	*University of Muenster (WWU Münster)*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institute of Sport and Exercise Sciences, Motion Science Department (WagnerLab)	PD Dr. Michael Brach,michael.brach@wwu.de +49 151 52738292	1	Exercise Science, Human Movement Science	Exercise Science (B or M), Human Movement Science (B or M), Health Science (B or M)
Time frame:	Three months between June 2020 and December 2020			
Institute's focal research areas	Student will work within the „Active Ageing Lab", together with researchers, professor and other students (graduate, undergraduate and Ph.D level). The department is used to welcome and to include foreign and temporary co-workers. Student will be included in and connected to running projects, such as • HERZSP (perceived safety in cardiac rehabilitation exercise), funding: German Paralympic Committee • PROCareLife (ICT-based cooperation, communication and healthy activities in integrated care), funding: EU – Horizon2020 • ACTIMENTIA (e-Learning education of caregivers for healthy exercise with patients living with dementia and mild cognitve impairment), funding EU – Erasmus+ • Usually other proposals or projects will be ongoing. According to own interests, project results can be utilised. • Connections with the other „Labs" of the department are welcome, e.g. Clinical Biomechanics, Computational Neuroscience, Evolution and Movement, Motor Control Student may participate in study programme choices of our human movement programme (full English with international students, bachelor and master level) – depending on the extact time of internship. The Wagnerlab is an international working group (Germany, Netherlands, Egypt, South Africa, Japan; planned: Iran). Working languages are English and German. Good team building within and between the subgroups (so-called „labs").			

#4	*University of Muenster (WWU Münster)*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institutum Judaicum	Prof. Dr. Lutz Doering lutz.doering@uni-muenster.de +49 251 83-2 25 62	1	Jewish Studies, Jewish History, Talmud, Ancient Jewish Literature, Mediterranean Religions and related subjects	B, M
Time frame:	1 June – 23 December 2020			
Institute's focal research areas	Ancient Judaism and its cultural, political, and religious context: Greece, Rome, and early Christianity			

#5	*University of Muenster (WWU Münster)*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Institut for Theoretical Physics	Prof Uwe Thiele Institut für Theoretische Physik, Universität Münster, Wilhelm-Klemm-Str. 9, D-48149 Münster, Germany, phone: +49 (0)251 83 34939, email: u.thiele@uni-muenster	1	Physics, Appl. Math or related	M or PhD
Time frame:	Oct - Dec			
Institute's focal research areas	Modelling of control mechanisms for driven menisci of simple and complex liquids on solid substrates and of the emerging deposition patterns			

#6	*University of Muenster (WWU Münster)*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Physikalisches Institut	Prof. Dr. Helmut Zacharias	1	Physical chemistry nanoscience	Master
Time frame:	2020			
Institute's focal research areas	self organization, functional organic films			

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 15,000 students and 13 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
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#1	*Muenster University of Applied Sciences*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
FH Muenster - University of Applied Sciences Department of Mechanical Engineering Laboratory for Thermal and Power Engineering	Prof. Dr.-Ing. habil. Stefan aus der Wiesche FH Münster Stegerwaldstr. 39 48565 Steinfurt Tel: 02551 9 62272 wiesche@fh-muenster.de	1	Mechanical Engineering Good english language skills required.	B,M PhD possible (together with University of Paderborn)
Time frame:	01.09. – 31.12.2020			
Institute's focal research areas	All research projects are dealing with fluid mechanics and heat transfer (both experimental and theoretical research). Every project is linked to a larger research project coordinated by PhD students and research assistants in the lab. The supervision and support of the students is fully ensured. The following projects are currently open for the present initiative: - Boiling heat transfer and investigation of microscale flow phenomena - Convective heat transfer from rotating disks - Flow separation and reattachment of a turbulent boundary layer Further information is available (see corresponding internet page of the lab: (https://en.fh-muenster.de/maschinenbau/labore/waermetechnik/waermetechnik.php)			

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/

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#1	*Paderborn University*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Department of Physics, Faculty of Science	Prof. Dr. Arno Schindlmayr Department of Physics, Paderborn University, Warburger Str. 100, 33098 Paderborn, Germany e-mail: arno.schindlmayr@upb.de phone: +49 (5251) 60 23 38	1	Theoretical Physics, Applied Mathematics	M, P
Time frame:	12 weeks from 1 October until 22 December 2020			
Institute's focal research areas	Within the field of theoretical solid-state physics, the focus of our research is the development and application of ab initio methods to investigate the electronic structure and excitation spectra of solids without adjustable parameters. Our principal techniques are density-functional theory and many-body perturbation theory, which is based on Green functions. With these methods, the electronic, optical and magnetic properties of a material can be predicted using only fundamental quantum mechanics and the chemical composition of the material in question. We are particularly interested in the effects of correlation on the electronic band structure and in the accurate description of collective excitations, such as plasmons, excitons and magnons. Within a research project, candidates could make use of these techniques and the available computer codes for quantitative simulations of technologically interesting materials. Another important activity is the formal theory development with the aims of analysing the performance of common approximations and of improving the internal consistency of practical implementations as well as the conformance with known exact relations. For this purpose, the methods are applied to test systems that have either analytic or numerically exact solutions for comparison. This offers a variety of possible short-term projects for candidates with a background of theoretical solid-state or molecular physics, computational science or applied mathematics.			

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!

BERGISCHE UNIVERSITÄT 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:

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#1	***University of Wuppertal***			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Mechanical Engineering – Engineering Design	Prof. Dr. Peter GUST E-mail: peter.gust@uni-wuppertal.de Phone: +49 (0)202 439-2046	1	Mechanical Engineering	M or P
Time frame:	May – mid July			
Institute's focal research areas	- 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			

#2	*University of Wuppertal*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (M = Master, P = PhD)**
Center for international studies in social policy and social services	Prof. Dr. Heinz SÜNKER Email: suenker@uni-wuppertal.de Phone: +49 (0)202 439-2295	1	Social Sciences; Education; Social Policy; Social Work; Migration; Gender; Social Sciences and Law	M; P
Time frame:	May to July or October to December			
Institute's focal research areas	The center deals with theory, politics and practices in political and welfare institutions, in education and social services. We offer a broad range of topics with respect to comparative questions.			

#3	*University of Wuppertal*			
Institute	**Contact at the institute**	**Number of places**	**Discipline or subject area**	**Scholars' degree program (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	B or M or P
Time frame:	Two time windows are offered to make surethe fellow is well supervised: April 01 to June 30 or October 01 to December 23			
Institute's focal research areas	Our group does research in the field of elementary particle physics with the ATLAS detector at the Large Hadron Collider (LHC) at the European Centre for Nuclear Research (CERN).The students can choose from two projects:a) data analysis in top quark physics, orb) digital electronics for detector readout.In the analysis project, the student will work on studies based on simulated events, preparing analyses to search for additional (new) 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.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.			