

Bursary programs for Israeli students at universities and universities of applied science in North Rhine-Westphalia

Call 2009

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

(current version, as of March 3, 2009)

Please choose the bursary place(s) you seek to apply for;
fill in the corresponding identification number (#) from the following list into the
application form that you can download from

<http://www.uni-duesseldorf.de/home/Internationales/Information/NRW-Nahost-Foerderprogramme/Israel/Englisch/2009/Dokumente/FormIsrael2009>

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Disciplines (multiple entries possible)

Computer / Information Sciences / Robotics	<ul style="list-style-type: none"> • AC 2; AC 5 • DS 2; DS 5 • FZJ 1; FZJ 3-4 • KL 3 • MS 12 • FH MS 1-2 • OWL 1 • PB 2
Biology / Pharmacy / Life Sciences / Environmental Science	<ul style="list-style-type: none"> • BI 3 • BC 1; BC 3-4; BC 10-11 • BN 1-3 • BRS 3 • DS 2; DS 5-6 • FZJ 2-3 • MS 12 • OWL 1
Medicine	<ul style="list-style-type: none"> • AC 4 • BC 5; BC 10-11 • BN 1-3
Humanities / Media Studies / Education / Religious Studies / Archaeology	<ul style="list-style-type: none"> • BI 2 • BC 9 • DO 1; DO 3-4 • DS 1; DS 3-4; DS 6; DS 9 • FH KL 1 • MS 1-4; MS 11
Architecture / Design	<ul style="list-style-type: none"> • FH BI 1 • FH KL 1
Social Sciences	<ul style="list-style-type: none"> • BI 2 • BC 8 • DO 1 • DE 1-2 • MS 11

Economics	<ul style="list-style-type: none"> • BC 6-7 • BRS 1 • KL 3 • MS 11
Law	<ul style="list-style-type: none"> • BC 8 • DS 7-8 • KL 1-2
Physics / Geophysics / Nanotechnology / Astronomy	<ul style="list-style-type: none"> • AC 1-2 • BI 1 • BC 1 • BN 5 • BRS 2 • DO 2-4 • FZJ 2-6 • MS 5-10 • FH MS 3 • PB 1
Chemistry / Chemical Engineering	<ul style="list-style-type: none"> • AC 1 • BI 1; BI 3 • BC 2 • BN 2-5 • BRS 2 • MS 5; MS 9-10 • PB 1
Mechanical Engineering / Process Engineering / Civil Engineering	<ul style="list-style-type: none"> • AC 3 • FH BI 1 • BC 2-4
Electrical Engineering	<ul style="list-style-type: none"> • AC 5 • BRS 2 • FZJ 3-4 • FH MS 3 • PB 2
Mathematics	<ul style="list-style-type: none"> • FZJ 1, FZJ 3

Contact and further information

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Rheinisch-Westfälische Technische Hochschule Aachen (AC)

RWTH Aachen University is the largest university of technology in Germany and one of the most renowned technical universities in Europe, with around 29,000 students, more than the half of which in engineering. Every year numerous international students and scientists come to the RWTH Aachen to benefit from the internationally recognized high level of courses and the excellent work facilities at the RWTH. More than 5,000 international students are currently enrolled at both undergraduate level and graduate and PhD level. The proximity of Aachen to the Netherlands, Belgium and Luxembourg and the subsequent exposure to a variety of cultural heritages has placed RWTH Aachen in a unique position with regard to the reflection and promotion of international aspects and intensive interaction with other universities.

RWTH Aachen University organises an intensive German Language course for exchange students during the month of September.

www.rwth-aachen.de

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AC 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Physical Chemistry	Prof. Dr. W. Richtering	1	Physical Chemistry	M
Time frame:	Open			
Institute's focal research areas	1. Properties of temperature sensitive „intelligent“ microgels 2. Rheology and rheo-optics of surfactant lamellar phases			

AC 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
KEmikro	Prof. Dr. W. K. Schomburg	1	Knowledge of the computer code ANSYS required.	M
Time frame:	April 23 to June 30, 2009			
Institute's focal research areas	<p>At KEmikro micro systems such as micro valves and acceleration sensors are designed and developed. The design employs basic elements such as beams and membranes from which the force deflection curves are known. The catalog of these basic elements is known from the design of macroscopic devices; however, in micro technique other kinds of basic elements are important.</p> <p>Therefore, the FEM code ANSYS shall be used in the proposed project to extend the list of analytical functions describing basic elements in micro technique. The objective of the proposed project is to find the force-deflection-curve of folded beams in lateral direction.</p> <p>Students interested in this project need no experience in micro technique but need to be able to perform ANSYS calculations without the help of an instructor.</p>			

AC 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Building Materials Research	Allessandra Keil	1	Civil engineering (structural engineering and building materials)	M
Time frame:	From May to November, 2009			
Institute's focal research areas	<p>Textile reinforced concrete (TRC) is a new composite material, in which textiles from carbon or alkali-resistant glass fibres are used as reinforcement. One advantage of TRC is that it does not require alkaline protection against corrosion resulting in the possibility of low concrete covers and thin elements. An extensive research project "SFB 532" at Aachen University financed by the German Research Foundation (DFG) comprises the investigation of the innovative composite material "textile reinforced concrete".</p> <p>Within the scope of this research project the influence of polymers on the properties of TRC, like bond quality between textiles and concrete matrix, load bearing capacity and durability, is investigated at the Institute of Building Materials Research. During the stay in Germany the student will work on one of these topics.</p>			

AC 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Psychology	Sarah Lukas	2	Cognitive Psychology	M
Time frame:	April 23 to June 30, 2009			
Institute's focal research areas	Cognitive psychology: Cognitive control, Attention, Multitasking, Action control			

AC 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Software for Systems on Silicon (SSS)	Prof. Dr.rer.nat. Rainer Leupers	1-2	Computer Science or Electrical Engineering	M
Time frame:	Spring / summer 2009			
Institute's focal research areas	<p>Key research areas of the SSS are design methodologies, tools, and architectures for embedded systems, with focus on DSP and multimedia systems. Emphasis is on system simulation, automatic parallelisation of applications and the development of retargetable optimizing compilers for embedded multi-processor systems-on-chip (MPSoC).</p> <p>In the context of the scholarship program the student will be working closely together with PhD students in one of above mentioned topics. Hence, getting hands-on experience in the development of design tools for the embedded processor domain. A possible topic would be the porting and adaptation of an application for a heterogeneous embedded multi-core platform such as the Texas Instruments OMAP platform.</p>			

Universität Bielefeld (BI)

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

The Institute for Science and Technology Studies (IWT) is concerned with investigating the institutional and epistemic forms of science and technology, their patterns of change, and the accompanying ethical challenges and social consequences. The IWT is the only interdisciplinary centre in science and technology studies at a German university. It is well connected with leading international institutions in science and technology studies. The IWT was initially founded as a research institute. Over the years, researchers at IWT have taken on an increasing number of teaching duties in various departments at Bielefeld University. Thanks to the funding of Research Training Groups by the German Research Foundation (DFG), the IWT has also become an important location for postgraduate and postdoctoral training.

www.uni-bielefeld.de

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BI 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Bielefeld Institute for Biophysics and Nanosciene (BINAS)	Prof. Dr. Armin Götzhäuser	2	Physics, Chemistry	B, M
Time frame:	Open			
Institute's focal research areas	Supramolecular Systems, Nanomembranes Surface Analysis, Chemical Nanolithography, Nanowires, Self-Assembled Monolayers			

BI 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Science and Technology Studies (IWT)	Prof. Dr. Alfons Bora Prof. Dr. Martin Carrier Prof. Dr. Peter Weingart	3	Sociology, Philosophy, History	M
Time frame:	From June to December, 2009			
Institute's focal research areas	<ul style="list-style-type: none"> • Science and Technology Studies; Philosophy of Science, History of Science, Public Understanding of Science; • History, Philosophy and Social Studies of Science 			

BI 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of Chemistry Bioorganic Chemistry	Prof. Dr. Norbert Sewald	1	Biochemistry, Life Sciences	B, M
Time frame:	From May to December, 2008			
Institute's focal research areas	<p>The cryptophycins are a family of antimetabolic natural products. Some representatives are cytotoxic down to the picomolar range and also effective against multiply drug-resistant tumour cells. For that reason, cryptophycins have been considered a promising lead structure for future anticancer drugs. The first clinical candidate, cryptophycin-52, suffered from severe side effects, which made a dose-reduction necessary. However, cryptophycin-52 was only moderately effective at lower doses.</p> <p>We established a new total synthetic route to cryptophycin-52 as well as to a number of analogues. Our goals are structure-activity-relationship studies and subsequent conjugation of the drug to different homing devices. The homing device should effect a more tumour cell- or tumour tissue-selective delivery of the drug and hence reduce the side-effects seen with cryptophycin-52.</p> <p>We offer a research position in the field of tumour-targeting focusing on homing devices and the influence of linker designs on drug delivery.</p>			

Fachhochschule Bielefeld (FH BI)

In general focus on: Engineering and Applied Mathematics, Civil Engineering and Architecture, School of Business and Health Sciences, Design, Social Sciences.

Mainly courses offered in German language as language of instruction.

Wintersemester 2008/2009 about 8.000 students enrolled – about 250 international student including 30 guest-students.

All faculties offer language classes in German or offer cooperation with a private language institute for guest-students.

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

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FH BI 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Faculty of Civil Engineering and Architecture	Prof. Dr.-Ing. Joachim Bahndorf	2	Civil Engineering; Architecture	B
Time frame:	From May 1 to July 17, 2009; From September 21 to December 31, 2009.			
Institute's focal research areas	<ul style="list-style-type: none"> • Surveying methods and skills. • Construction of plain light buildings (e.g. sport halls or stadiums). • Water engineering and water management. • Micro- and ultra-filtration methods. 			

Ruhr-Universität Bochum (BC)

The Ruhr-Universität was prominent from its beginning: as the first new university to be founded in Germany after the war; and as the first university to integrate engineering on a single campus. Today it is the introduction of Bachelor and Master degree programmes – there is no other university in Germany that is so advanced in implementing the Bologna Process. The Ruhr-Universität exudes excellence in research and diversity in its international contacts. Among others it was awarded Cosmopolitan University as well as "Best Practice University" in 2004. It is recognised as one of Germany's leading universities.

In profile:

- Founded in 1965, today one of the biggest German universities as well as one of the most successful in research and training;
- More than 33,000 students (including 4,500 international students from 140 countries);
- Future oriented, e.g. to the neurosciences, medical technology, and IT
- security.

Study programmes:

The university offers you the whole range of the natural and social sciences, medicine, engineering, and humanities – and you can combine nearly all of the courses. At the RUB any academic career is possible, around 125 different Bachelor and Master programmes are available. The RUB is also a campus university. Everything is within a stones throw: from lecture halls to the library; from the cafeteria to the Arts Center. We also offer intensive German language training for our future students.

RUB has a unique range of MA programmes which focus especially on international students, most of them in English:

- Computational Engineering
- Development Management
- European Culture and Economy
- International Humanitarian Action
- Human Rights and Democratisation

Doctorate degrees are awarded in every faculty. The language of instruction in the general study programs is German. In many areas, doctorate studies and research stays can be done in English.

Research:

Research at the RUB is as varied and rich as the university itself: research covers materials science, neuroscience, plasma technology, as well as the study of Shakespeare. In particular, the RUB is a renowned center of excellence in medical technology. RUB's strength in research is based on the special ability of its academics to cooperate across the different faculties and disciplines. Scientific dialogue knows no disciplinary or national boundaries. RUB is an interdisciplinary and international environment. The International Graduate School for Neuroscience is only one of many examples of this character. Here you will find students of medicine, biology, chemistry, neuroscience and psychology from all over the world doing research on the human brain together. The newly established multi-disciplinary Research School, founded by the national "Excellence Initiative", provides a structure in which doctoral fellows are supervised by renowned RUB scholars from all 20 faculties and can take active role in their supervisor's own high level research projects. The Research School also offers courses to develop the professional and personal skills of the doctoral fellows.

- 10 Collaboratory research centers (Sonderforschungsbereiche)
- 4 Postgraduate research groups (Graduiertenkollegs)
- 5 Research groups (Forschergruppen)

Research strongholds: Neuroscience; Protein Research; Plasma Science; Material Science; Systems Chemistry; IT Security; Medical Technology; Subterranean Engineering; Sustainable Energy Technology; Religious Studies (More than EUR 75 million of research grants)

Where we are:

Bochum, a very lively modern city with more than 400,000 inhabitants, is situated at the heart of the Ruhr area, close to the Dutch, Belgian and the French borders. The Ruhr metropolitan region with around 5 million inhabitants is the largest economic region in Europe. It is also a region that has one of the highest concentrations of institutions of higher education and research. The many theatres, concert houses, cinemas and museums make the Ruhr region one of Europe's most interesting cultural landscapes.

<http://www.ruhr-uni-bochum.de>
<http://www.ruhr-uni-bochum.de/intoff>
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BC 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Geographical Institute, Dept. Soil Science	Prof. Dr. Bernd Marschner	2	Geography; Biology; Agriculture; Environmental Sciences	M
Time frame:	Open			
Institute's focal research areas	<ul style="list-style-type: none"> • Soil organic matter dynamics and microbial activity (measurement and modelling). • Degradation and sorption of steroid hormones in soils. • Effects of wastewater irrigation on Mediterranean soil properties • Heavy metal immobilization in soils 			

BC 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Faculty of Mechanical Engineering, Department of Process and Environmental Engineering	PD Dr.sc.nat. G. Ewert	1	Chemical Engineering	B; M
Time frame:	From May 2009 (8 weeks)			
Institute's focal research areas	Experimental investigations and simulation of mass and heat transfer with chemical reaction at gas treatment for example CO ₂ -absorption and optimisation of industrial plants with production of valuable CO ₂ -storage materials.			

BC 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Faculty of Biology and Biotechnology, Chair for Microbial Biology	Prof. Dr. Franz Narberhaus	1	Microbiology; Biochemistry	M
Time frame:	From May to November, 2009			
Institute's focal research areas	Control of lipopolysaccharide biosynthesis by the FtsH protease in Escherichia coli.			

BC 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Faculty of Chemistry and Biochemistry	Dr. Raphael Stoll	1	Biochemistry; Biology; Chemistry	M
Time frame:	From May to July 24, 2009			
Institute's focal research areas	Biomolecular NMR spectroscopy and structural biology, determination of protein structure; molecular biology, cloning and expression of recombinant proteins, purification of recombinant proteins, miscellaneous biochemical techniques			

BC 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Center for Vision Research Eye Hospital Bochum	Prof. Dr. Burkhard Dick	2	Medicine	B; M
Time frame:	Open; preferable during lecture times: Summer term: May to July 24, 2009 Winter term: October 12 to December, 2009			
Institute's focal research areas	Clinical trials / studies Especially intraocular lenses, refractive surgery, glaucoma http://www.rub.de/augen			

BC 6

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Economic Faculty, Chair for Empirical Economics	Prof. Dr. Thomas K. Bauer	2	Economics, preferable with basic econometric skills and an interest in labor economics and/or migration issues.	M
Time frame:	Open; preferable during lecture times: Summer term: May to July 24, 2009 Winter term: October 12 to December, 2009			
Institute's focal research areas	The research focus of the chair is on theoretical and empirical studies in labor and population economics. The stipend is given the possibility to participate in a research project on the "Economic Integration of Immigrants in Israel and Germany", which is funded by the German-Israeli Foundation (GIF) and is conducted in cooperation with Prof. Cohen-Goldner and Prof. Epstein (Bar-Ilan University). The stipend has further the possibility to visit lectures of the Master-Programme of the Economics Department of the Ruhr-University of Bochum and the Ruhr Graduate School of Economics (RGSEcon).			

BC 7

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Economic Faculty, Chair for Economic Policy and Applied Econometrics	Prof. Dr. Christoph M. Schmidt	2	Economics, preferable with basic econometric skills and an interest in labor economics and/or migration issues.	M
Time frame:	Open; preferable during lecture times: Summer term: May to July 24, 2009 Winter term: October 12 to December, 2009			
Institute's focal research areas	The research focus of the chair is on theoretical and empirical studies in labor and population economics. The stipend is given the possibility to participate in research projects conducted in cooperation with the RWI Essen, one of the five big economic research institutes in Germany (see www.rwi-essen.de). The stipend has further the possibility to visit lectures of the Master-Programme of the Economics Department of the Ruhr-University of Bochum and the Ruhr Graduate School of Economics (RGSEcon).			

BC 8

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Chair of Criminology and Police Science, Law Faculty	Prof. Dr. Thomas Feltes	1	Law; Criminology; Police Science; Social Science	M
Time frame:	Open			
Institute's focal research areas	Fear of crime, victimization, police science, police use of force, gender related violence, police training and education (in cooperation with the German Police University, Muenster); applicant may take part in the Masters Program in Criminology and Police Science (distance learning) and may finish his/her studies afterwards from Israel.			

BC 9

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Mediastudies	Prof. Dr. Peter Spangenberg	2	Media Studies; Film and TV-Studies; Communication Studies	B; M
Time frame:	Open; preferable during lecture times: Summer term: May to July 24, 2009 Winter term: October 12 to December, 2009			
Institute's focal research areas	Broadcasting (radio and television), cinema, digital media (computer and network communications), print media (book and press); media theory, communications theory and history of the discipline; systematic aspects like aesthetics and technology, gender, representation/reception, media history, media systems and institutions, theory and methods.			

BC 10

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Cognitive Neuroscience, Department of Neuropsychology	Prof. Dr. Irene Daum	1	Cognitive Neuroscience; Psychology	B; M
Time frame:	Open			
Institute's focal research areas	Neuropsychological mechanisms of human learning and memory, brain mechanisms of face processing and their dysfunction in neurological and psychiatric disorders, use of electrophysiology to elucidate cognitive functions in human subjects.			

BC 11

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institut für Neuroinformatik Neural Plasticity Lab	PD Dr. Hubert Dinse	3	Medicine; Biology; Psychology; Neuro- science	B; M
Time frame:	Open			
Institute's focal research areas	<p>See www.neuralplasticitylab.de</p> <p>Neuroplasticity is the ability of brains to adapt to new experiences and constraints of the environment during the entire life-span. The Neural Plasticity Lab at the Institute for Neuroinformatics at the Ruhr-University in Bochum studies functional, integrative and cognitive neuroscience with the main focus on neuronal plasticity, learning and aging.</p> <p>Our goal is an understanding of neuroplasticity principles. Plastic changes developing after training, experience and practice evoke learning processes that serve the acquisition of new skills. Reorganisation following injury and lesion compensates deficits of previously acquired abilities. Plastic brain changes following passive sensory stimulation represent a form of learning processes that can be selectively and purposefully induced to target specific changes of behaviour and perception.</p> <p>Current Research of the Neural Plasticity Lab:</p> <p>Plasticity and Learning:</p> <p>Perceptual learning, pharmacological modulation of learning, assessing learning-evoked brain changes by means of EEG, SEP and fMRI (fMRI in collaboration with the Dept. Neurology of the BG Krankenhauses Bergmannsheil, Prof. Dr. Martin Tegenthoff), investigation of the relation between brain re-organization and changes in perception and behavior</p> <p>Aging</p> <p>Investigation of aging processes as a signature of neuroplasticity mechanisms. Assessment of age-related changes of sensory, sensorimotor and cognitive performance in elderly human subjects, development and testing of training and stimulation protocols to ameliorate age-related alterations (passive stimulation, dancing), electrophysiological and behavioural studies in aged rats.</p> <p>Haptics</p> <p>Investigation of tactile-haptic perception, particularities of tactility as compared to vision, cortical processing of tactile-haptic information</p>			

Rheinische Friedrich-Wilhelms-Universität Bonn (BN)

Rheinische Friedrich-Wilhelms-Universität, which is amongst the top German universities in terms of student enrolments (comparatively especially high international percentage), publications, research funds and Postgraduates attracted. Several interdepartmental and interfaculty curricula (e.g. in Biotechnology and Medicine), research nets and departments/laboratories. A new and unique English spoken Bonn Department of International Medical Education and Development takes care of foreign students closely co-operating in a special program of the Academic Exchange Office of the University.

Students from Israel could be integrated in interfaculty projects and even some English spoken Bachelor or Master Curricula in any of the below listed institutes, which have pride of their ample interdisciplinary co-operations, long standing involvements in bilateral co-operation programs (including GIF projects), plus contacts with reputed scientific laboratories and institutions in Israel (including several universities and the Weizmann Institute).

www.uni-bonn.de

Contact: Prof. Dr. O. Golubnitschaja
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BN 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Medical Faculty, Department of Radiology Division of “Molecular / Experimental Diagnostics”	Prof. Dr. Olga Golubnitschaja	1	Non-invasive molecular diagnostics; Application of “Disease Transcriptomics and Proteomics” in Medicine	B; M
Time frame:	August to December, 2009			
Institute's focal research areas	Development of disease specific molecular markers for predictive diagnostics and personalized therapy; Application of clinical transcriptomics and proteomics; Expression profiling of human blood; Clinical evaluation of individual predisposition to breast cancer, leading causes of blindness, and chronic complications secondary to <i>Diabetes mellitus</i> type 2. Technological approaches: Clinical proteomics, “Expression Array”, “Comet Assay”, Zymography, “Real-Time”-PCR.			

BN 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Animal Physiology and Department of Biochemistry, Faculty of Agricultural Sciences	Prof. Dr. Brigitte Schmitz	2	Biochemistry; Biology; Chemistry; Medicine	B; M
Time frame:	August to December, 2009			
Institute's focal research areas	<p>Signalling in neurite outgrowth and cell migration stimulated by the neural cell adhesion molecules L1 and NCAM. Investigations in tissue culture and transgenic animals.</p> <p>Investigations into signalling mechanisms implicating the O-linked N-acetylglucosamine modifications of proteins with special reference to neurodegenerative diseases, metabolic syndrome, cataractogenesis and ageing.</p>			

BN 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Animal Physiology and Department of Biochemistry, Faculty of Agricultural Sciences	Prof. Dr. Dr. Helga Sauerwein	2	Biochemistry; Biology; Chemistry; Medicine	B; M
Time frame:	August to December, 2009			
Institute's focal research areas	<p>Adipokines and acute phase proteins in dairy cows: relation to health impairments in high-yielding animals during early lactation. Investigations in vivo (experimental dairy cow herd, goat model); quantification of mRNA expression; development and application of immunoassays for relevant proteins (various body fluids, tissue extracts and histological sections) also in pig, horse, fish and other species.</p>			

BN 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Inorganic Chemistry	Prof. Dr. Rainer Streubel	1	Chemistry	M
Time frame:	June to July and September to December, 2009			
Institute's focal research areas	<p>Combined theoretical and experimental investigations on synthesis, structure and properties of organo-metallic and organo-element compounds; special focus on modern strategies in synthesis (rearrangements, templates, catalysis) and quantum chemistry (DFT methods and Compliance Constants).</p>			

BN 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of Physic. Chemistry / Science Faculty	Prof. Dr. Moritz Sokolowski	1	Physics; Chemistry	M
Time frame:	August to December, 2009			
Institute's focal research areas	Optical spectroscopy at soft matter interfaces			

Fachhochschule (FH) Bonn-Rhein-Sieg (BRS)

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

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

As English or another foreign language is a required subject for all students, the university has established a central Language Centre which designs, coordinates and carries out foreign language instruction on all three campuses. These specific-purpose courses are taught predominantly by native speakers, and state-of-the-art IC technologies are often implemented, primarily through the use of new language labs and self-access centres in both Rheinbach and Sankt Augustin. Especially for foreign students, "German as a foreign language" is offered including the TestDaf Exam.

The campuses in Sankt Augustin, Rheinbach and Hennef are well-equipped with modern laboratories, and technical equipment. UBRS has approximately 120 Professors of which many receive research grants. There are about 120 support staff including technical and administrative employees. UBRS currently has around 4500 students and the Department of Natural Sciences recruits about 200 undergraduate in Bachelor programs and about 30 students in a Master program each year in two study courses: Applied Biology (as an international study course) and Chemistry with Material Sciences (as an German study course).

www.fh-bonn-rhein-sieg.de

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BRS 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of Business Administration	Prof. Dr. Jürgen Bode	1	Business Administration, Management	M
Time frame:	Open			
Institute's focal research areas	<p>Bachelor: students attend the international programme „Business Administration“ in English language (30 ECTS).</p> <p>Master: individual supervision of a research project in International Management, Strategic Management, Marketing, Operations Management, or Project Management. Possibility to attend Master courses only in exceptional cases (depends on time frame). Students can use student desks in the library, no office space will be provided.</p>			

BRS 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of Natural Sciences	Prof. Dr. Peter Kaul	2	Chemistry, Material Science, Physics or Electrical Engineering	M (B also possible)
Time frame:	Open			
Institute's focal research areas	<p>The terroristic attacks in recent years and the experiences in asymmetric warfare (e.g. in Afghanistan) have considerably increased the interest in systems for the detection of explosives.</p> <p>The University of Applied Science is since 2004 involved in research activities with regards to mobile detection of explosives. These works are often done in close cooperation with external partners like the University Bonn or the Research Establishment for Applied Science (FGAN) or an German military reseach institute (WIWEB).</p> <p>So far, the department participates in two funded research projects (MoSEV financed by the German Ministry of Defence and HAMLeT, financed by the EU), Thesis work will be integrated in this projects.</p> <p>Part of these efforts are the following items:</p> <ul style="list-style-type: none"> • Development of a new gas-phase sensor based for TATP using semiconducting sensors, electrochemical cells, and/or chemiluminescent analytes. • Development of a mobile analytical system to identify energetic substances. • Investigations about detection of explosive traces on surfaces using laser-beam initiated combustion and IMS analysis. 			

BRS 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of Natural Sciences	Prof. Dr. Edda Tobiasch	2	Biology	M
Time frame:	Open (at least 10 weeks)			
Institute's focal research areas	<p>The work deals with stem cell differentiation, signal transduction.</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 evidence that they can be differentiated in chondrogenic, osteogenic, adipogenic and myogenic lineages. Inductions of the cells into multiple mesenchymal lineages already resulted in the expression of several lineage-specific genes, proteins and specific metabolic activity.</p> <p>We aim at investigating fat-derived MSC, as potential donor cells, for their ability to differentiate in the osteogenic and beta cell direction for future treatment of diabetes and large bone effects and in the adipogenic direction to investigate the influence of the differentiating fat cell in the development of atherosclerosis.</p> <p>More information on the subjects can be found on the homepage: http://fb05.fh-bonn-rhein-sieg.de/tobiasch.html</p> <p>The work encompasses the following topics for potential scholarship holder:</p> <ul style="list-style-type: none"> • Differentiation and characterisation of adult, human mesenchymal stem cells • Determination of the role of the differentiating adipocyte in the pathogenesis of diabetes mellitus type 2 • Biocompatibility testing of nano-structured polymers as scaffolds for 3D tissue engineering <p>The group is composed of the lab leader, a scientist, two PhD students, 2 Master students and 6 Bachelor students working on their thesis. One of the PhD students (Nina Zippel) will take care for the guest student from Israel.</p>			

Technische Universität Dortmund (DO)

The Technische Universität Dortmund was established in 1968 and comprises 16 Departments and Faculties, 7 Collaborative Research Centers, 7 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 WS 03/04 amounted to 25.560. The staff consists of 306 professors, 1.362 academic and about 2.778 non academic staff.

The Technische Universität Dortmund 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 Technische Universität Dortmund 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 Technische Universität Dortmund 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 the successful completion of courses of study for international students is to increase the number of lectures held in English.

Building the network connecting the Technische Universität Dortmund 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.

In addition to further increasing its international contacts, in the future the university will pay special attention to extending existing networks, like the European Consortium of Innovative Universities (ECIU), and to cooperation with institutions like the National Academy of Education Administration (NAEA) in the People's Republic of China.

In April and September, free German language courses are available at the University of Dortmund.

www.tu-dortmund.de

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DO 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of English and American Studies Program in American Studies, teacher training, Masters in cultural Studies, PhD Program	Prof. Dr. Walter Grünzweig	1	American Studies; Cultural Studies	B; M
Time frame when bursars can be hosted.	From September to December, 2009			
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.			

DO 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Physics	Prof. Dr. Dr. Wolfgang Rhode	2	Physics or Astronomy	M
Time frame when bursars can be hosted.	Open			
Institute's focal research areas	The astroparticle physics working group is involved in the neutrino telescope IceCube (South Pole) and the Cherenkov telescope MAGIC (La Palma). Dependent on the interest and knowledge of the applicant phenomenological flux calculations or contributions to the data analysis are possible.			

DO 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Physics	Prof. Dr. Dr. W. Rhode	1	Physics or Philosophy	M
Time frame when bursars can be hosted.	Open			
Institute's focal research areas	In the frame of a teaching project, the philosophy of science relevant for quantum mechanics shall be explained in short articles for pupils between the 11th and 13th grade. For this specific project a good knowledge of German is required.			

DO 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Philosophy	Prof. Dr. Dr. Brigitte Falkenburg	1	Physics or Philosophy	M
Time frame when bursars can be hosted.	Open			
Institute's focal research areas	Philosophy of Science: <ul style="list-style-type: none">• Philosophy of physics (particle concept, problems of cosmology)• Kant's theory of nature (precritical & critical cosmology)			

Universität Duisburg-Essen (DE)

The University of Duisburg-Essen is located in the middle of a region with the largest number of educational institutions per square kilometer in Europe. About 30,000 students are enrolled at the university; with its 3,400 academic and non-academic staff, it is one of the most important employers in the Ruhr region. The university is one of the largest in the German state of North Rhine-Westphalia. It is also the youngest, being created on 1 January 2003 via a merger between the University of Duisburg and the University of Essen, independent universities founded in 1972. At its two campuses – located at the center and western edge of the Ruhr, respectively – the faculty and students of these two universities are now working together to build a shared future. The broad spectrum covered by teaching and research at the two campuses constitutes a solid foundation for the University of Duisburg-Essen. This spectrum stretches from the departments devoted to the humanities, social sciences and economic sciences at the one end to the engineering and science departments and medical school at the other, with the highly regarded design departments somewhere in the middle.

www.uni-duisburg-essen.de

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DE 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Sociology	Claudia Breitung	2	Sociology	B; M
Time frame:	April 23 to end of July, 2009; October to December, 2009			
Institute's focal research areas	<p>The study program in Sociology at the University of Duisburg-Essen has a tradition of being praxis-oriented and internationally comparative. It is not based on any specific sociological school, and instead draws from various theories in order to characterize and explain the problems of <i>The New World of Work</i> as best as possible.</p> <p>In addition to the foundations of the discipline, intensive methods training and courses covering the research focus, advanced study is possible in the areas: comparative sociology; work, occupations and organisations as well as advanced empirical research methods..</p>			

DE 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Development and Peace (INEF)	Prof. Dr. Tobias Debiel (Director)	1	International Relations; Peace and Conflict Studies	B; M
Time frame:	May to July, 2009			
Institute's focal research areas	<p>The Institute for Development and Peace (INEF) is an Institute of the University of Duisburg-Essen (Department of Social Sciences) with a strong focus on policy-related and policy-relevant research. INEF combines basic research with applied and policy-related research in the following areas: Global governance and human security, fragile states, state-building, development, human rights and corporate social responsibility.</p> <p>INEF could offer to integrate the person holding a scholarship into a research project on "Fragile Statehood and Peacebuilding" headed by Prof. Tobias Debiel. He/ she could also discuss his/ her thesis in this context.</p> <p>The scholarship holder would also be offered the opportunity</p> <ul style="list-style-type: none"> a) to take part in selected seminars held in English for advanced BA students conducted for a EU-funded exchange program with Canadian Universities on the topic of 'Human Security' at the interface between Peace and Development Research. Parts of the program are also suitable for MA students and connected to our MA Degree Course 'International Relations and Development Policy'. b) to discuss his/ her thesis project in relevant colloquia c) to use the UDE's library as well as the INEF's specialized library d) to get access to research- and policy-related conferences on pertinent topics. <p>We would also offer recommendations on research design and methods of qualitative social science research.</p>			

Heinrich-Heine-Universität Düsseldorf (DS)

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

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

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

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

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

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

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

www.uni-duesseldorf.de

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DS 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Culture and Media	Prof. Dr. Reinhold Göring	2	Cultural and Media Studies; Film Studies	M
Time frame:	From May 1 to July 17, 2009; From August 15 to October 31, 2009			
Institute's focal research areas	<ul style="list-style-type: none"> • Violence, Trauma and Cultural Development • Torture and Film • Torture and Homo Sacer 			

DS 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Botany	Dr. Tal Dagan	2	Molecular evolution / Bioinformatics	B (only in last year of study), M * knowledge of programming is required
Time frame:	Open			
Institute's focal research areas	Endosymbiosis and endosymbiotic gene transfer, Lateral gene transfer and prokaryotic genome evolution. See also group website: www.molevol.de			

DS 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Jewish Studies	Prof. Dr. Marion Aptroot	3	Yiddish Studies	B; M
Time frame:	Open			
Institute's focal research areas	Yiddish Culture, Language and Literature.			

DS 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Jewish Studies	Prof. Dr. Stefan Rohrbacher	3	Jewish Studies; History	B; M
Time frame:	Open			
Institute's focal research areas	Jewish History, Jewish Religion, Jewish Culture.			

DS 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Bioinformatics	Prof. Dr. Martin Lercher	2	Biology; Computer Science	M
Time frame:	Open			
Institute's focal research areas	Bioinformatics: computational genomics, systems biology, network analysis. Students will participate in ongoing projects (e.g., comparative genomics of yeasts or plants) www.cs.uni-duesseldorf.de/AG/BI/Englisch			

DS 6

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
C. & O. Vogt Institute of Brain Research, in cooperation with INB-3, Institute for Medicine, Research Centre Jülich	Prof. Dr. Karl Zilles	1	Cognitive Science; Neuroscience & language	M
Time frame:	July-September, 2009			
Institute's focal research areas	fMRI localizers for sentence processing relative to cytoarchitectonic probabilistic maps.			

DS 7

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Chair of Civil Law, German and International Business Law and Antitrust Law	Prof. Dr. Christian Kersting	1	Law (experience in civil, corporate and/or antitrust law would be appreciated)	B; M
Time frame:	6 weeks; between April and June; scholars for #DS 7 and #DS 8 should come at the same time.			
Institute's focal research areas	<p>The chair of Civil Law, German and International Business Law and Antitrust Law focuses on questions of civil and corporate law as well as antitrust law, cf. http://www.jura.uni-duesseldorf.de/dozenten/kersting</p> <p>Scholarship holders will work on a research project that aims at a comparison of Israeli and German law in the area of company liability.</p>			

DS 8

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Chair of private, labour and comparative law	Prof. Dr. Andreas Feuerborn	1	Law (experience in private, industrial and labour law would be appreciated)	M
Time frame:	6 weeks; between April and June; scholars for #DS 7 and #DS 8 should come at the same time.			
Institute's focal research areas	<p>The chair of private, labour and comparative law focuses on questions of private and labour law, cf. http://www.jura.uni-duesseldorf.de/dozenten/feuerborn</p> <p>Scholarship holders will work on a research project that aims at a comparison of Israeli and German law in the area of (professional) liability of employees.</p>			

DS 9

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Culture and Media	PD Dr. Dirk Matejovski	2	Culture and Media Studies	B; M
Time frame:	<p>From May 1 to July 15, 2009;</p> <p>From October 15 to December 21, 2009</p>			
Institute's focal research areas	<ul style="list-style-type: none"> • Culture and Media Studies • Popular Culture Studies • Film Studies • Acoustic Turn 			

Forschungszentrum Jülich (FZJ)

Research Centre Jülich, member of the Helmholtz Association, is one of the major research institutions in Europe. An interdisciplinary staff of 4300 members, including 1500 scientists from disciplines like physics, chemistry, biology, medicine and the engineering sciences, focus their work on two of the „*Grand Challenges*“ of society:

For Jülich, this is on the one hand the field of **Health**, where Jülich scientists are trying to decipher the mechanisms of neurodegenerative diseases like Alzheimer and Parkinson and to find therapies for these diseases.

On the other hand, Jülich is addressing the field of **Energy&Environment**. With research on renewable energies like photovoltaics, new technologies and materials like fuel cells and work on nuclear fusion, Jülich delivers a significant contribution for a sustainable and holistic energy supply. Combined with a strong expertise in environmental research, Jülich helps to understand the mechanisms of climate change and to develop directives for climate protection.

Research Centre Jülich is tackling these two *Grand Challenges* by using existing and developing new key technologies like **biotechnology, nanoelectronic materials, and simulation sciences** using supercomputers. Jülich's new supercomputer JUGENE is the fastest computer used for civil purposes worldwide and is second in the TOP 500 list.

The Research Centre is located near the town of Jülich, **close to the university cities** Aachen, Bonn, Cologne and Düsseldorf. The proximity of Jülich to the Netherlands, Belgium and Luxemburg as well as about 700 international guest scientists per year add to an excellent and inspiring training environment.

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

www.fz-juelich.de

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FZJ 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Juelich Supercomputing Centre (JSC)	Prof. Dr. Johannes Grotendorst	2	Theor. Sciences, Applied Mathematics, Computer Science	M
Time frame:	From August 3 to October 9, 2009			
Institute's focal research areas	Computational Sciences, Numerical Mathematics, Programming Techniques, Visualisation, Parallel Computing, Performance Analysis, Cluster Operating Systems, Grid Computing cf. http://www.fz-juelich.de/jsc/cs/en			

FZJ 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Bio- and Nano-systems – Bioelectronics (IBN-2)	Prof. Dr. Andreas Offenhäusser	1	Physics, Biology, Material Science	M
Time frame:	Open			
Institute's focal research areas	<p>The use of biomolecules and biological cells as the building blocks of higher-level functional devices can be used for recognition or sensing, such as biosensors. Bioelectronics research also seeks to use biomolecules to perform the electronic functions that semiconductor devices currently perform.</p> <p>Our group is working in Bioelectronics in the areas of interface between micro and nano-electronic systems and life sciences. We have research activities in both of the following domains:</p> <ul style="list-style-type: none"> • <u>Micro-/Nano-electronics for Life Sciences</u>, i.e. how micro-/nano-electronic systems can help to solve important problems in life sciences. Examples include integrated devices for detection of cells, DNA, proteins, and small molecules • <u>Life Sciences for micro-/nano-electronic systems</u>, i.e. how we can learn from nature to build micro and nano electronic devices. Examples include protein mediated electronic devices and neuro-electronic circuitries. <p>http://www.fz-juelich.de/isg/ISG_2Bioelectronics/</p>			

FZJ 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Central Institute for Electronics (ZEL)	Dr.-Ing. Gudrun Wagenknecht	2	Informatics; Electrical/Biomedical Engineering; Mathematics; Physics	M
Time frame:	Open; for 3 months.			
Institute's focal research areas	<p>The research group Multimodal Image Processing at ZEL focuses on the development of algorithms for segmenting and analysing 3D brain structures of humans and small animals based on multimodal images (MRI, CT, PET, SPECT). Applications of these methods are in the field of neuroscience, diagnosis and therapy of brain diseases as well as molecular diagnosis. We are partners in national and international research projects (e.g., BMBF, EU).</p> <p>Small projects regarding the following topics can be offered for students with background in medical image processing and outstanding programming skills in C, C++:</p> <ol style="list-style-type: none"> 1. The implementation of enhancement algorithms, e.g. inhomogeneity correction, as an important prerequisite for further image processing steps; 2. The implementation of semiautomatic and automatic algorithms to segment different 3D regions inside and outside the brain as well as the comparison and evaluation of those approaches. 			

FZJ 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Central Institute for Electronics; Analysis and Control of Complex System Lab	Dr. Michael Schiek	1	Electronic Engineering; Physics; Applied Science; Special skills: Programming (C, C++ or MATLAB) and/or experience in μ C programming	M
Time frame:	From May to December, 2009; for at least 8, but preferably 12 weeks.			
Institute's focal research areas	<p>The background of the project is scientific instrumentation of health care applications by means of body sensor networks.</p> <p><u>The task of the projects</u> will be in the context of the application specific programming. The platform will either be the recently developed intelligent sensor nodes based on microcontroller MSP 430 by Texas Instruments or a PC for the network control and the offline data fusion and analysis. The work will include support of the experimental work (data collection) and coding of algorithm for the offline analysis of the clinical data or microcontroller programming concerning the intelligent sensor nodes.</p>			

FZJ 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for solid state research (IFF)	Dr. Thorsten Auth	1	Physics	B; M
Time frame:	Open, for 3 months.			
Institute's focal research areas	<p>The institute of solid state research of research centre Jülich hosts three larger groups that study soft matter. The theory group of Prof. Gompper works on soft matter and biophysics using simulations and analytical techniques and focuses on membranes, polymers, colloids, and complex fluids (http://www.fz-juelich.de/iff/e_th2).</p> <p>We suggest a <u>project in the area of computer simulation of soft matter and hydrodynamics.</u></p>			

FZJ 6

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Nuclear Physics Institute (IKP)	Prof. James Ritman	1	Nuclear or Particle Physics	B; M
Time frame:	From May to July, 2009			
Institute's focal research areas	<p>The Nuclear Physics Institute (IKP) at the research center Juelich operates the COSY (cooler-synchrotron) accelerator. This provides phase space cooled proton and deuteron beams with momenta up to 3.7 GeV/c for nuclear and hadronic physics experiments. The detector WASA with nearly 4pi acceptance has recently started operation. The primary physics goal of this experiment is to investigate (broken) symmetries by making high statistics experiments of charged and neutral decays of the eta and eta' mesons. For instance, isospin violating decays provide a sensitive measure of the difference between the light (current) quark masses. Furthermore, IKP is making essential contributions to the charged particle tracking detectors of the future PANDA experiment which will investigate antiproton-proton annihilation in the charm-quark mass region. This experiment will perform high precision measurement hadrons with charm quark content. For more information please see www.fz-juelich.de/ikp or www-panda.gsi.de</p> <p>The summer student is offered the possibility to be involved with either of the two main projects mentioned above: The first project (WASA) will involve participation in</p> <p>the running experiment and can include the verification of the data quality or the optimization of the data trigger methods. Alternatively, the student can be involved with the preparations for the antiproton experiment PANDA. Here the student will be involved with either simulations of the silicon-pixel detector response, or investigate the optimal conditions to achieve high resolution position information from the gas-based proportional chambers (straw tubes).</p> <p>The working language in the institute is English. German courses are available. The student should have significant experience in programming, preferably with C or C++. Experience with the CERN software packages GEANT and/or ROOT is desirable. Alternatively, the student should have significant experience with gas based proportional drift chambers.</p>			

Universität zu Köln (KL)

The University of Cologne was founded in 1388 and is one of the oldest universities in Germany. It is also one of the most famous and - with the largest student population in Germany of about 49.000 students - also one of the most popular universities due not only to the diversity of academic opportunities but also to the unique atmosphere of Cologne itself. The University of Cologne with its six faculties offers students an enormous variety in choice and combination of courses and subjects. Students, who expect and fulfil high standards at the university, will find best studying conditions here.

The Faculty of Law has 5.742 registered students. With its numerous institutes, it prepares the students for the first state examination in German law, which is a prerequisite to a legal career in Germany. From industrial and social law to commercial and tax law, the faculty has an outstanding reputation in all fields of legal research, teaching and practice. The faculty offers facilities for studying, including a large number of specialized institutes with libraries, one of the largest university law libraries in Germany, and very good IT facilities.

Cologne is also known as the "Media and communications city" thanks to its unique blend of art, culture and creativity, with no fewer than 11 broadcasting companies. The increasing media and communication industry and Europe's largest film- and TV-studio complex creates a vivid scene with numerous pop-festivals and open-air.

www.uni-koeln.de

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KL 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Roman Law	Professor Dr. Martin Avenarius	1	Law	B or M
Time frame:	From May to July, 2009 From September to December, 2009			
Institute's focal research areas	The Institute's research work centres on preclassical and classical Roman law as well as on the history of the reception of Roman law. A special field of research lies in the influence of Roman law in Russia.			

KL 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for international and foreign Private Law	Professor Dr. Heinz-Peter Mansel	1	Law	B or M
Time frame:	From May to July, 2009 From September to December, 2009			
Institute's focal research areas	<p>The main research areas are:</p> <ul style="list-style-type: none"> - International Private and Procedural Law - European Private and Conflict of Laws Provisions - Comparative Law - the German Civil Law and the Law of Civil Procedure <p>within the foreign law in particular the law of the anglo-american and the romanique legal systems, above all the italian law, the legal systems of the near- and middle-east States, particularly the turkish and the islamic law.</p>			

KL 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Dept. of Business Administration and Media Management	Prof. Dr. Claudia Loebbecke, M.B.A.	1	IS / New Media	Master (possibly Bachelor)
Time frame:	Preferably during our teaching periods, mid April to late July or as of mid October			
Institute's focal research areas	Innovative information and media technologies in companies, decision models, simulation models			

Fachhochschule Köln (FH KL)

Some 17.500 students in 10 faculties, counselled and taught by 450 professors, make the Fachhochschule Köln (Cologne University of Applied Sciences) Germany's largest »University of Applied Sciences«. A diversified mix of disciplines, divided almost equally between engineering and arts subjects, offer outstanding opportunities for interdisciplinary projects and cooperation schemes. In view of its multi-faceted, high-quality teaching range and research spectrum, the Cologne University of Applied Sciences is a much sought after contact internationally and has forged links of many different institutions of higher education both inside and outside Germany. Hallmarks of the Cologne University of Applied Sciences include application-gearred and faculty-crossing education, research and development, dynamic advances in various fields of study, integrated internships and short duration of studies. Thanks to the close links between scholarship and industry, current developments can be input directly into the work of the Cologne University of Applied Sciences.

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

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FH KL 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Köln International School of Design (KISD)	Lisa Janßen	2	Design	B; M
Time frame:	From May 1 to July 17, 2009; From September 21 to December 31, 2009.			
Institute's focal research areas	KISD has twelve different areas of expertise. You can learn about a broad spectrum of design disciplines. Get more information at http://www.kisd.de			

Westfälische Wilhelms-Universität Münster (MS)

Germany's 3rd largest university with highest standard in teaching and research; ca. 40 000 students, broad variety of subjects and research, no campus university, located in the most livable city (UN LivCom Award 2004), bicycle town of Germany

- Research university with emphasis on teaching and learning process;
- At the forefront of exploring nano science and technology;
- Developing high tech with local and international industry partners;
- Creating new tools for curriculum reform;
- Main fields of study and research: Medicine, Law, Social- and Natural Sciences, Economics, Humanities.

Beginner and advanced German language courses in Sprachenzentrum

<http://spzwww.uni-muenster.de/studieninformation/ldaf/index.php>

www.uni-muenster.de

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MS 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Classical Archaeology and Early Christian Archaeology	PD Dr. Achim Lichtenberger	1	Classical Archaeology	B; M
Time frame:	From April 23 to December 20, 2009			
Institute's focal research areas	Classical Archaeology, Mosaics, Numismatics, Etruscology, Hellenistic and Roman Near East			

MS 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Classical Archaeology and Early Christian Archaeology	Dr. Achim Lichtenberger	1	Early Christian / Byzantine Archaeology	B; M
Time frame:	From April 23 to December 20, 2009			
Institute's focal research areas	Late Antique and Early Christian Archaeology			

MS 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Faculty of Catholic Theology Department for Liturgical Studies	Prof. Dr. Clemens Leonhard Mathias Henkel	1	Religious Studies, Jewish Studies, History, Theology	B; M
Time frame:	Open (We advise students to com during the academic year. Students are of course also welcome during the period of vacations at the university – or during the time of the holidays of the elementary schools in NRW. This is, however less advisable because persons whom the student may want to contact during his/her stay in NRW may be absent.)			
Institute's focal research areas	Prof. Leonhard is working on the relations between Judaism and Christianity and their cultural contexts in Antiquity and the early middle ages focusing on rituals and liturgies. Topics that involve the study of traces of rituals/liturgies in Rabbinic literature and Piyyut, earlier texts as well as the study of instances of mutual influence between Judaism and Christianity regarding liturgies are welcome (Communication in German, English and Modern Hebrew). Mathias Henkel specializes in his doctoral program on medieval liturgies, especially the question of translations of liturgical texts from Latin into German in the middle ages.			

MS 4

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
„Center for the History and Culture of the Eastern Mediterranean" (GKM)	Prof. Dr. Reinhard Achenbach	1	Religious Studies; Jewish Studies; Ancient History; Archaeology; Ancient Orientalism	B; M
Time frame:	Open			
Institute's focal research areas	The GKM researches religious, historical, cultural, social and economics themes concerning the ancient Eastern Mediterranean.			

MS 5

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Material Physics	Dr. Sergiy Divinski	1	Materials Science	B; M
Time frame:	From April to July and September to December, 2009, for 3 months			
Institute's focal research areas	Experimental investigation of diffusion in nanocrystalline materials; diffusion in materials with evolving microstructure; kinetic properties of non-equilibrium grain boundaries produced by severe plastic deformation.			

MS 6

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Theoretical Physics	Prof. Dr. Rudolf Friedrich	2	Theoretical Physics	M
Time frame:	From April 27 to July 24, 2009 From September 14 to December 18, 2009			
Institute's focal research areas	Complex Systems: turbulence, structure, formation, granular systems, chaos			

MS 7

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Theoretical Physics	Prof. Dr. Gernot Münster	1	Theoretical Physics	M
Time frame:	From April 27 to July 24, 2009 From September 14 to December 18, 2009			
Institute's focal research areas	Theory of elementary particles: lattice gauge theory; chiral perturbation theory			

MS 8

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Physics	Prof. Dr. Helmut Zacharias	1	Laser Physics	M
Time frame:	From May 01 to July 31, 2009			
Institute's focal research areas	Generation of femtosecond laser pulses; control of the spatial and temporal pulse shape by phase modulation; generation of femtosecond hard x-rays; time-resolved x-ray diffraction.			

MS 9

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Physics	Prof. Dr. Helmut Zacharias	1	Chemistry; Physics	M
Time frame:	From May 01 to July 31, 2009			
Institute's focal research areas	Electron emission from chiral organic thin films; electron spin analysis; surface science.			

MS 10

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute of Physics	Prof. Dr. Harald Fuchs	1	Physics; Physical Chemistry; Nanoscience; Nanotechnology	M
Time frame:	Open			
Institute's focal research areas	nanosensors, scanning probe techniques, self organization.			

MS 11

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Innovation Office / Arbeitsstelle Forschungstransfer (AFO)	Dr. Wilhelm Bauhus Sandra Wiegand	1-2	As a liaison office, the AFO team is a very interdisciplinary and diverse unit and therefore welcomes all disciplines. The current team inherits geologists, political scientists, psychologists, biologists, economists and communication scientists. However, first experiences in project management would be helpful for the scholarship holder, a basic knowledge of a university's technical transfer structures an asset.	B (3 rd year) M
Time frame:	No fixed period. However, in order to benefit from this traineeship, the optimal length of stay is 12 weeks. Applications which demand a shorter duration of stay can't be accepted. We strongly advise applicants to avoid scheduling the main time of stay during the summer months and would appreciate a stay from September/October to December.			

Institute's focal research areas	<p>The Innovation Office - Arbeitsstelle Forschungstransfer (AFO) serves as an entry point to the university's research and as an interface within the University of Münster. Our mission is to promote and enhance the transfer of research, knowledge and technology. Our partners are industry and economy, the public sector, governmental- and non-governmental-organisations as well as individuals. We are focusing our activities to establish cultures of entrepreneurship and intellectual property rights. We see creativity and curiosity as the keys to research, knowledge, social innovation and prosperity.</p> <p>Depending on the respective period of time and individual (research) interest, the scholarship holder will be included in the ongoing projects, e.g. Muenster School of Innovation (Teaching Transfer), Idea-Mining Thematic Think Tanks, Patenting, Muenster University Model United Nations, (international) Networking, Community outreach projects, Science Communication a.m.m.</p> <p>It has also our core interest to learn from the fellow and therefore, he / she has the opportunity to create their own projects. AFO is therefore looking for open-minded spirits- and self-starting personalities.</p> <p>www.uni-muenster.de/AFO/</p>
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MS 12

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Institute for Biodiversity and Evolution / Faculty of Biology	Prof. Dr. Erich Bornberg-Bauer	2	Biology; Marine Biology; Ecology; Bioinformatics	B; M
Time frame:	April 23 to July 20, 2009 (experimental work) April 23 to October 31, 2009 (bioinformatics approaches)			
Institute's focal research areas	<p>Our institute is involved in several fields of evolutionary biology using model organisms such as beetles and fruit flies, and includes a department for evolutionary bioinformatics. Our group however, is especially involved in non model organisms. We work with sea grasses, which in Europe represent a major component of the benthic ecosystem along shallow coastal habitats. Loss of sea grasses is a growing concern, generally in the world, but specifically in Europe where it involves not only loss of biodiversity but also causes shore erosion. Specifically, we are studying the differential response of several sea grass species and populations (Northern vs. Southern Europe) to thermal stress caused by heat waves. Scenarios of global climate change predict the increase in both frequency and magnitude of such heat waves. In an experimental set up in the laboratory we are simulating heat waves and studying their effects using physiological and genetic approaches. Finally there are opportunities to understand molecular evolution through changes in the amino acid using bioinformatics.</p>			

FH Münster (FH MS)

The Münster University of Applied Sciences (MUAS) was founded in 1971 out of public and private schools and has developed to a modern, achievement-oriented and service-oriented university. MUAS is with approximately 9,000 students and 15 faculties/central research institutions one of the biggest institution of its kind in Germany. The departments and institutions are located at different places in Münster and Steinfurt. Training and research ensure the quality of the six competence area:

- Construction | Environment | Resources
- Health | Life Sciences
- Product and Process Development
- Applied Social Sciences
- Company and Service Management
- Communication | Information

Students receive an academic training in various fields, for instance in engineering sciences or in artistic and creative vocations. The range of courses also comprises social sciences and economics as well as subjects oriented toward the service sector. The Language Centres offer German language courses.

www.muenster-uas.de

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FH MS 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Lab for Software Engineering	Prof. Dr. Gernot Bauer	1	Computer Science	M
Time frame:	From April to July, 2009 From October to December, 2009			
Institute's focal research areas	The scholarship holder would take part in a current research project. Research fields: software engineering , requirements engineering, mobile (geo) computing			

FH MS 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Lab for Network Programming	Prof. Dr. Michael Tüxen	2	Computer Science	M
Time frame:	From April to July, 2009 From October to December, 2009			
Institute's focal research areas	Innovative Transport Protocols, especially SCTP (Stream Control Transmission Protocol). Applicability of SCTP of existing and new application, security of SCTP and applications using it. Possible access to work: SCTP and firewalls, SCTP and DTLS, SCTP and SSH			

FH MS 3

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Sensor Lab	Prof. Dr. R. Hengherr Prof. Dr. Th. Rose	1	Applied Physical Electrical Engineering	B; M
Time frame:	From September to December, 2009			
Institute's focal research areas	Industrial Image Processing, incl. X-ray tomography: "Optimization of X-ray contrast in plastic material X-ray tomography"			

Ostwestfalen-Lippe University of Applied Sciences (OWL); Campus Höxter

Ostwestfalen-Lippe University of Applied Sciences (HS OWL) is located in the federal state of North Rhine-Westphalia, nearly half way between Dortmund and Hanover. HS OWL cooperates with round about 50 universities in Europe, East Asia, Latin America and the US by strongly supporting the mobility of students and professors. On the other hand, HS OWL is in close cooperation with the local industry. Together with industry new study programs and innovative study models are developed.

Academic programs are aimed at qualifying students for the international labor market. Degree programs at HS OWL are application-oriented. The close connection between theory and practice is a strong characteristic of the study programs. In most cases, students write their final thesis in cooperation with local companies. They are also encouraged and actively supported to study abroad and complete internships with international companies.

HS OWL has three campuses located in the historic cities of Lemgo, Detmold and Höxter. In Lemgo, you can find the traditional engineering disciplines such as Mechanical Eng., Electric and Electronic Eng., Information Technology and Food Science Technology. The Detmold campus provides a comprehensive choice of programs in all fields related to the building and construction industry.

Höxter has made a name for itself as a campus dedicated to ecological aspects in the teaching of its technical degree programmes and in applied research. This aspect applies not only to Landscape Architecture, which is unique to the Hochschule Ostwestfalen-Lippe – University of Applied Sciences in NRW, but also to Environmental Engineering.

German Courses will be individually assigned by the International Office.

www.hs-owl.de

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OWL 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Department of Environmental Engineering and Applied Informatics.	Prof. Dr. Marianne Gruppe	2	Environmental Engineering; Applied Informatics	B
Time frame:	8 weeks from beginning of May 2009. 12 weeks from beginning of October 2009.			
Institute's focal research areas	<u>Environmental Sciences</u> a) Biology Lab: protection of water, toxicity tests b) Waste Lab <u>Applied Informatics</u> a) support in computer pools b) support CAD lectures c) support tutorials in Applied Informatics			

Universität Paderborn (PB)

The University of Paderborn, founded in 1972 is a fully accredited state university offering all types of academic degrees including PhD and postdoctoral lecture qualification.

The university is “The University for the Information Society”. Corporate image, mission statement and the university’s action are led by this guiding principle. So Paderborn concentrates on computer science and its application, and especially on IT-related aspects of interdisciplinary collaboration involving all the academic departments of the university. Together they all contribute to developing and critically exploring the information society, with the arts and humanities taking on a major, independent role.

Among research institutes there are an International Graduate School of Dynamic Intelligent Systems, Collaborative Research Centres (SFB) of the German Research Foundation (DFG), interdisciplinary Cooperation Project and DFG Research Training Groups.

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

There are about 14 000 students studying at the university, among them about 1500 international students.

German Language courses: A four week course of 20 hours per week starts before the semester begins on March 2nd and on September 12th. Another course of 10 hours per week runs during the semester.

The city of Paderborn can look back on 1,200 years of history and forward to a future full of ideas and drive. Paderborn is a delightful city with its own special flair. It is also home to some of the world’s leading industrial corporations, such as Siemens, Wincor Nixdorf, Benteler, Hella und Stute. Located in the heart of Germany, Paderborn is an ideal base for getting to know the country and its people.

With a population of around 140,000 people, Paderborn is a lively cultural centre with theatres and cinemas, concerts from classical to jazz, a vibrant arts scene, clubs and entertainment, museums – including the world’s largest computer museum – art galleries, and a generous range of sports and recreational activities, from water sports, riding, indoor carts through to parachuting and gliding; and of course, Paderborn has loads of city fetes and festivals. Not to forget its inviting pubs, bistros and restaurants which show that this is indeed a student city.

www.uni-paderborn.de

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PB 1

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
Chemistry Department, Faculty of Science	Prof. Dr. Claudia Schmidt	2	Physical Chemistry; Colloid and Polymer Science; Physics	M
Time frame:	May to December 15, 2009 (minimum duration of stay: 8 weeks in order to learn the experimental techniques)			
Institute's focal research areas	<p>Colloid and polymer science, solid state NMR of soft matter</p> <p>Our research is focussed on the investigation of structure and dynamics in soft matter, in particular, in surfactant solutions, liquid crystals and polymers using modern nuclear magnetic resonance (NMR) techniques. The specialty of our laboratory are in situ NMR measurements on samples under shear to detect shear-induced structures and orientations. Examples for possible projects are:</p> <ul style="list-style-type: none"> • Investigation of the formation of shear-induced multilamellar vesicles, which may be of interest as drug-delivery systems or nanoreactors, and other shear-induced phenomena by deuterium NMR spectroscopy. • Correlation between the mechanical properties of nanocomposites and polymer blends and the molecular structure and dynamics at the interface investigated by magic angle spinning (MAS) NMR spectroscopy. • Characterization of the aggregation of dye molecules in aqueous solution by NMR techniques such as high-resolution NMR and diffusion and relaxation measurements. <p>Previous knowledge of NMR techniques is not required. A good general background in physical chemistry (quantum mechanics and spectroscopy) and experimental skills for the work with physical instruments and computers are recommended. The projects focus on fundamental science, but the materials and methods used are of great importance in applied chemistry.</p>			

PB 2

Institute	Contact at the institute	Number of places	Discipline or subject area	Bursars' degree program (B = Bachelor; M = Master)
GET Lab – Smart Systems Engineering	Prof. Dr. Bärbel Mertsching	2	Electrical Engineering, Computer Science, and related fields	M
Time frame:	Open			
Institute's focal research areas	<ul style="list-style-type: none"> - autonomous and telesensory mobile robot systems - computer vision - virtual and augmented reality/ simulation - (low power) microelectronics 			