

communicative
innovative
unique

dedicated
collaborative
excellent

active
creative
involved

talented
high-performing
promising

development-oriented
dynamic
unique

productive
relevant
stimulating

direct
hands-on
communicative

established
independent
methodical

constructive
planning-focused
interdisciplinary

future-oriented
open
inspiring

technology-focused
systematic
realistic

innovative
interconnected
practice-focused

partnership-oriented

communicative
innovative
unique

strategic
integrated

intercultural
international
interactive

We illuminate the smallest secrets

Night. Peak period at DELTA. Electrons accelerated to

nearly the speed of light produce high-intensity X-rays:

Here, at the world's only electron storage ring located

on a university campus, researchers shed light on the greatest secrets of nature – the tiniest constituents of matter, atoms, protein chains. Under the direction of Professor Metin Tolan, even first-semester students have the opportunity to clarify questions related to research and development. What's more: Students helped build the 115.2 meter long electron storage ring. We place great value on student participation. Who are we?

We answer current cultural questions

When pupils and teachers in Germany improve,

Professor Nele McElvany is one of the first to know.

She heads IGLU, the German section of PIRLS (Progress

in International Reading Literacy Study), and has also contributed to PISA, the study which has raised public awareness about educational research as a science. Our research provides highly regarded impetus for national and international youth, school and education policy. That is why we know first hand what equal opportunity – but without uniformity – means. Who are we?

Prof. Tolan, Physics
DELTA Electron Storage Ring



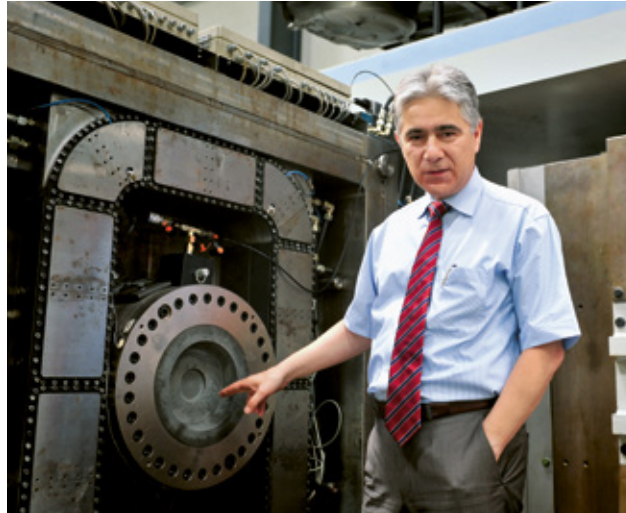
Prof. McElvany, Educational Research

Campus City in Dortmunder U

Prof. Tillmann, Materials Technology



Prof. Tekkaya, Forming Technology and Lightweight Construction



Prof. Steinbrecher, Institute of Journalism

We study materials from the building component to the atom

New materials are important for solving questions of the future. They are needed for supplying energy, for mobility or medicine. Together with scientists of the University Alliance Ruhr, Prof. Dirk Biermann, Prof.

Wolfgang Tillmann and Prof. Erman Tekkaya carry out research across the entire materials chain to find answers to these questions – an achievement we are proud of. Who are we?

We develop new media formats

The studio spotlights bathe the set in green light. ‘Sound?’ ‘On!’ ‘Camera?’ ‘Running!’ Professor Michael Steinbrecher monitors the students in front of the

camera: They are filming their debut television show – under real conditions. Their television appearance is on the schedule of *nrwision*, a participatory TV channel funded by the state of North Rhine-Westphalia, which broadcasts statewide and via Internet. This is possible because we have TV professionals like Michael Steinbrecher as professors. Who are we?

Day by day, I experience TU Dortmund University as a place where the future is envisaged and developed.

It is hard to believe that for scholars just a generation ago, this campus – today bustling with such activity – was then an expanse of green meadow. Here more than 34,400 students and a staff of 6,320 people, including around 300 professors, as well as a number of institutes and cooperation partners conceive perspectives for the future. The university's uniquely organized interplay of 16 faculties provides an environment conducive to technical innovation and fosters advances in methods and knowledge. Engineering and science, as well as the social sciences and cultural studies, have created a university spirit in which interdisciplinarity and interaction, communication and cooperation are not only taught, but also lived. In this sense, I cordially invite you to learn more about TU Dortmund University.

Yours sincerely,



Prof. Ursula Gather, Rector



We are
TU Dortmund
University

Nearly 300 professors teach and
dedicated |
carry out research at TU Dortmund
collaborative | excellent

University. Their multifaceted com-

mitment is manifested in the vari-

ous honors and distinctions that
have been awarded to outstanding
representatives of the university.

Several colleagues have been award-
ed an ERC Advanced Grant or are
speakers of a Collaborative Re-
search Center (CRC). Other col-
leagues have received the Alfried
Krupp Prize for Young Professors,
the Leibniz Prize, the Adolf Grimme
Award, the Konrad Zuse Medal, the
Communicator Award, the Heinz
Maier Leibnitz Award, the Werner
Heisenberg Medal, the Ars Legendi
Prize, architect prizes, the Emil
Kirschbaum Medal and Federal
Crosses of Merit.



Prof. Waldmann,
Chemical Biology,
ERC Advanced Grant



Prof. Morik,
Computer Science,
CRC speaker



Prof. Bayer,
Physics,
CRC speaker



Prof. Sadowski, Biochemical und Chemical Engineering, Leibniz Prize



active | creative | involved

Around 6,600 new students enroll each year at TU Dortmund

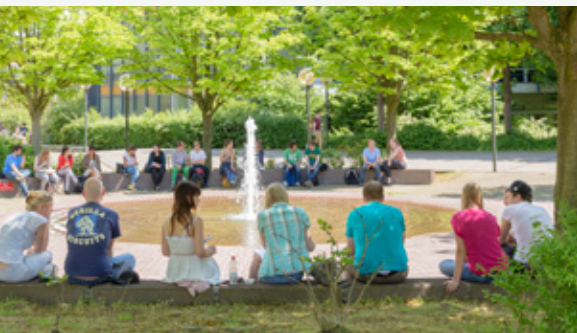
University. They select both classic and innovative courses:

Around 80 bachelor and master degree programs are of-

fered, including a broad-based teacher training program with around 30 courses of study. Sixty percent of the more than 34,400 students have opted for engineering and scientific disciplines. Forty percent are enrolled in cultural studies or social sciences programs.

In addition to their lectures and seminars, the students are engaged in a variety of initiatives and are active in more than 75 different university sports. There are also many cultural initiatives, such as the student orchestra or the university film club.

Under the direction of the chancellor, research and teaching are actively supported by a service-oriented administration, which sees itself as a service provider for all members of the university.



Around 2000 academic staff members are employed at

talented | high-performing |

TU Dortmund University. Their entry into the world of re-

promising

search is supported on a high international level. Several

graduate school programs, including three Research

Training Groups of the German Research Foundation (DFG), contribute with their programs to around 260 doctoral degrees that are awarded each year at the university.

The wide range of graduate programs for early-career researchers are coordinated and expanded in the Graduate Center of TU Dortmund University. Within the Research Academy Ruhr these interdisciplinary offers are part of the network of the University Alliance Ruhr. The International Max Planck Research School in Chemical Biology and the Research Training Group MEDAS-21 provide interdisciplinary support for young scientists. Other springboards offering excellent perspectives for young researchers are the Collaborative Research Centers (CRCs), research units and priority programs of the German Research Foundation (DFG) as well as individual supervision of doctoral students in all faculties.

According to the assessment of the DFG, in the implementation of the 'Research-Oriented Standards on Gender Equality', TU Dortmund University has ranked in the top group since 2011.



Dr. Albrecht,
Experimental Physics

Prof. Fengler,
Speaker of the research school
MEDAS-21





Already in 1958 the Association of Friends (GdF) steadily

development-oriented |
dynamic | unique

fastly sought to generate support for the construction

of a technical university in Dortmund. Ten years later the

first lecture was held at the 'University of Dortmund',

which as part of an education initiative became increasingly important for the structural transformation in the region. Meanwhile, during its history TU Dortmund University has developed a special profile: Uniquely structured faculties in the engineering and natural sciences and in social sciences and cultural studies work together here. The GdF has always been committed in its support of the university, and in particular promotes networking with the urban society. Today TU Dortmund University is not only the city's largest education and research institution, but is also one of its largest employers.



Prof. Schmeißer (†1981),
Founding Rector

In four profile areas, research at TU Dortmund University is

productive |

visible both nationally and internationally.

relevant | **stimulating**

The area “Material, Production Technology and Logistics”

is ranked at the top of research funding rankings. In the

profile area “Chemical Biology, Drug Research and Process Engineering” one focus of research is on active molecules that can be used to specifically influence cell cultures for experimental purposes. In the area “Data Analysis, Modeling and Simulation” scientists in informatics, mathematics and statistics as well as engineering and economics work together to master huge amounts of data, for example in the Competence Center for Machine Learning Rhine-Ruhr (ML2R). The empirical research and the developmental concepts of the fourth profile area “Education, School and Inclusion” shape the current discourse on topics ranging from new school types up to and including PISA.

Prof. ten Hompel,
Logistics



Prof. Turek, Mathematics





TU Dortmund University is a 'presence' uni- direct | hands-on | communicative

versity, in which e-learning meaningfully sup-

plements the classes. It offers a wide range of

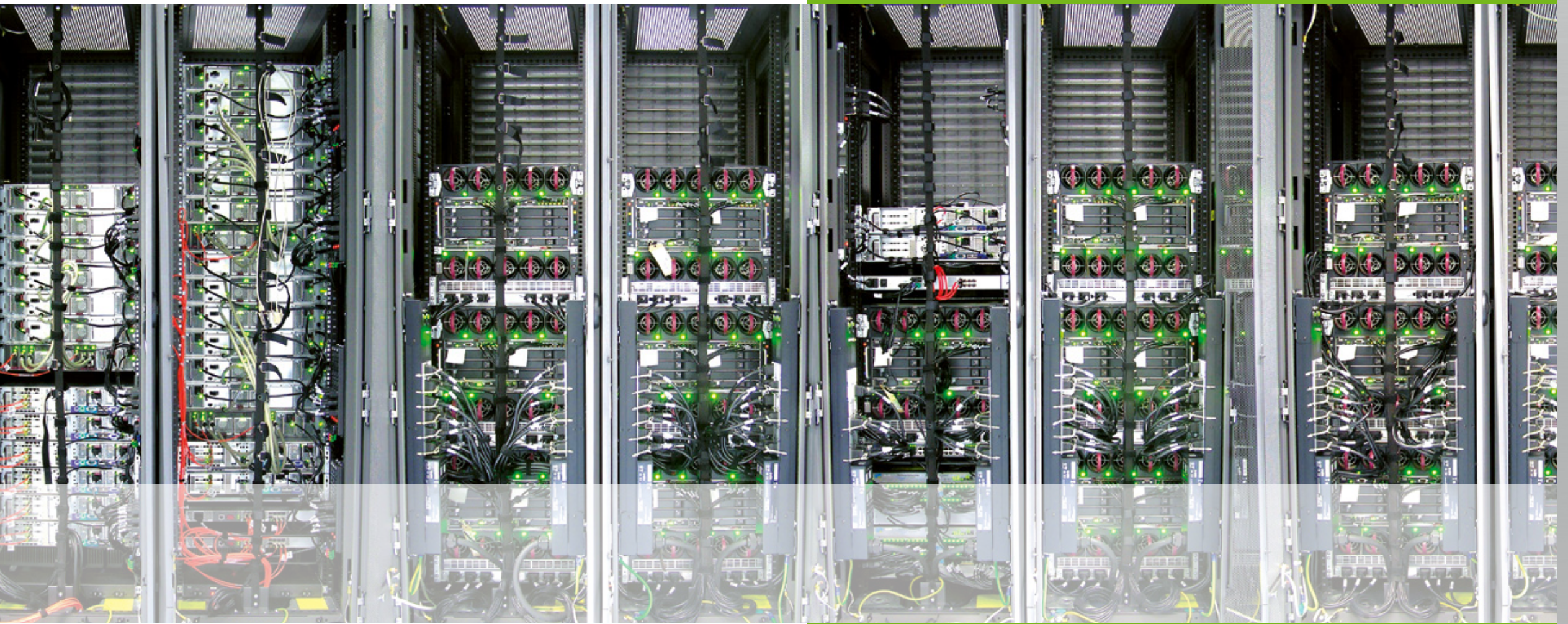
different teaching formats – including large

lectures, interactive seminars and practical lab experiments as well as individual lessons in music.

The Teacher Training Center (DoKoLL) coordinates teacher training at TU Dortmund University, whereas the Center for Higher Education is responsible for the areas of Continuing Education, Teaching and Faculty Development, Foreign Languages as well as Disability and University Studies (DoBuS). Already more than 40 years ago, DoBuS pioneered the motto 'A University for All' and in 2016 received an award from Zero Project in recognition of its work for inclusion.

TU Dortmund University places a special focus on the transition from school to university, for example through the SchülerUni, which offers courses and events for school students, the university's open house days, talent scouting or the Dortmunder Zentrum Studienstart, a center for beginning students. A variety of preparatory courses and close contact to teachers and schools help make the introductory phase of university studies a success. Taking advantage of these and other initiatives offered at the university, about 4,400 students complete their degrees at TU Dortmund University every year – and the trend in the number of graduates is rising.





The natural and methodological science faculties at
established | independent |
 TU Dortmund University have an outstanding reputation.
methodical

The Faculty of Physics offers the innovative study program Medical Physics. With its popular science

lectures 'Between Breakfast and Borussia', the faculty has sparked growing interest in topics of modern physics. The profile of the Faculty of Chemistry and Chemical Biology is characterized by its close cooperation with the Max Planck Institute of Molecular Physiology on the campus. Both collaborate in the field of drug discovery.



Prof. Ickstadt, Faculty of Statistics

Didactics – a special field of expertise of the Faculty of Mathematics

The Faculty of Statistics is unique in Germany and particularly strong in the interaction with the life sciences, economics and technology.

The Faculty of Mathematics collaborates very successfully with engineering faculties and has developed mathematics education into a special area of expertise. Dortmund's Faculty of Computer Science is one of the largest in Germany. Many of its graduates have established their own companies in the adjacent technology park.



Prof. Hanada, Architecture

The engineering faculties at TU Dortmund University offer a full

constructive | planning-focused |

spectrum: The Faculty of Mechanical Engineering is nationally

interdisciplinary

and internationally one of the leading faculties in production

technology and logistics. The Faculty of Biochemical and Chem-

ical Engineering is the largest in Europe; here the innovative degree program Bioengineering was developed. Electromobility, energy storage and intelligent networks are popular research fields of the Faculty of Electrical Engineering and Information Technology.

The Faculty of Architecture and Civil Engineering is developing new approaches to the holistic planning and construction of buildings. Furthermore, the Faculty of Spatial Planning, established by the university more than 50 years ago, was the first to offer an independent study program for spatial planners. As a consequence of the international planning program SPRING, Dortmund graduates can be found in all continents of the world.



Prof. Schwiegels-hohn, Distributed Systems

Seminar for Art and Art Studies



Prof. Ritterfeld,
Rehabilitation Sciences



Prof. Crone,
Philosophy



Prof. Liening,
Entrepreneurship School

Social sciences and cultural studies at TU Dortmund
future-oriented |

University are collaboration-oriented and embedded in
open | inspiring

various academic networks. In the Faculty of Business

and Economics, the spectrum ranges from entrepre-

neurship research, controlling and marketing to health policy and economic policy. The Social Research Center Dortmund also deals with questions concerning the working environment and organizational change. The Faculty of Cultural Studies promotes campus-wide dialogue with interdisciplinary course programs and offers Germany's only program in science journalism, which also includes an integrated traineeship in this field.

The Faculty of Education, Psychology and Sociology is well known throughout Germany for its research on schools. The Faculty of Rehabilitation Sciences seeks to investigate what support is necessary for people with special needs in their everyday lives. It is the largest independent university institution with this profile in Europe.

Political scientists, philosophers and theologians collaborate in the Faculty of Human Sciences and Theology. The Faculty of Arts and Sports Sciences also trains art teachers, and music is also offered as a major in the course program for prospective secondary school teachers. TU Dortmund University is one of the few universities in Germany to offer course programs for prospective teachers of all school types.

Strong institutional networks in the natural sciences

technology-focused |

and engineering profile areas contribute significantly to

systematic | **realistic**

the research achievements of TU Dortmund University.

One Max Planck institute, two Fraunhofer institutes, two

Leibniz institutes and the Federal Institute for Occupational Safety and Health (BAuA) are located in close proximity to the campus.

The Max Planck Institute of Molecular Physiology is devoted to systems biology. The Fraunhofer Institute for Material Flow and Logistics, the institute responsible for the EffizienzCluster LogistikRuhr, is a landmark of logistics research in Germany. The Fraunhofer Institute for Software and Systems Engineering develops concepts for complex IT systems with long-term stability. The main focus of the Leibniz Institute for Analytical Sciences (ISAS) is on application-oriented basic research in the field of physical-chemical analysis.

The Leibniz Research Centre for Working Environment and Human Factors (IfADo) investigates the potential and risks of modern work based on insights from the Behavioral and life sciences, whereas BAuA explores issues of safety and health at work.

Three other institutes are affiliated with the university: the Institute of Gerontology, the Research Institute for Technology and Disability, and the German Institute for Civic Art. Together with the University of Applied Sciences and Arts and TU Dortmund University, most institutes are members of windo e.V., an association of science institutions in Dortmund.

Brain wave measurement, IfADo





Aerial photograph 2018

Europe's largest technology park adjacent to a university

innovative |

campus is the best proof of the timeliness and relevance

interconnected | practice-focused

of research and teaching at TU Dortmund University.

TechnologieZentrumDortmund (TZDO), the nucleus of the technology park, focuses on seven fields of technology: micro-/nanotechnology, IT, electronics, logistics, production technology, biomedicine and environmental technology. Approximately 350 established and innovative spin-off companies with more than 10,000 employees benefit from the dense infrastructure and the synergy of industry and science.

The dialogue between the university and industry has created numerous spin-offs and networks. Already in 2012 support for start-ups was anchored at TU Dortmund University with the founding initiative "tu>start-up".

In 2017, the Center for Entrepreneurship & Transfer (CET) was launched as a central institution for the promotion of start-ups and technology and knowledge transfer. And since 2019 TU Dortmund University is "Excellence Start-up Center.NRW".

With the Deutschlandstipendium, TU Dortmund University has also created an attractive grant program for companies to support outstanding students in their region. Companies can thus make contact early on to potential specialist employees.



Welcome event for first-semester students in the stadium of the SIGNAL IDUNA PARK

Seven universities and some twenty research
partnership-oriented |
institutions have made Dortmund into a major science
strategic | integrated

location. The master plan 'Science City Dortmund', which

was adopted in 2013, further strengthens this profile and

the international competitiveness of the science location Dortmund. For the outstanding communication of this project, TU Dortmund University and the Dortmund University of Applied Sciences and Arts were awarded the University Communications Prize 2015 by the German Rector's Conference and the publisher Die Zeit together with the Robert Bosch Foundation. The city surprises foreign students and researchers with its many aspects: intercultural diversity and green recreation areas, thrilling sporting events and a rich cultural offering – all that is Dortmund. For the European Capital of Culture RUHR.2010, the Dortmunder U opened as a center for art and creativity. Since then TU Dortmund University has been showing changing exhibitions of science and art at 'Campus City'.

The University Alliance Ruhr (UA Ruhr) of TU Dortmund University, Ruhr-Universität Bochum and the University of Duisburg-Essen strengthens the achievements of all three partners in the region and expands the shared focus of research and teaching. An example of this is the UA Ruhr Research Cluster RESOLV (Ruhr Explores Solution), which is funded within the framework of the German federal government's Excellence Initiative.

International courses, exchange and research

intercultural |

projects promote intercultural skills in a global

international |

society. The International Meeting Center IBZ

interactive

was built as the central forum for dialogue on the

campus to facilitate contacts between students

from all over the world as well as with companies that are active worldwide. Events with a global perspective such as the International Career Fair, the International Summer Program (ISP) or the Open Courses, to which refugees are warmly invited, show how people from different cultures learn from each other and together with each other.

The contact to North America is particularly fostered, for example with the liaison office of the University Alliance Ruhr (UA Ruhr) in New York coordinated by TU Dortmund University. Additional UA Ruhr offices are in Moscow and São Paulo. Many collaborations and international projects of the faculties and scientists fill these contacts with life.



International Meeting Center IBZ

