UA RUHR | RESEARCH ACADEMY

Ruhr-Universität Bochum

Technische Universität Dortmund

Universität Duisburg-Essen

Explore your Research Opportunities in the German Ruhr Area

RUB Ruhr-Universität Bochum

tu technische universität dortmund

UNIVERSITÄT DUISBURG ESSEN

Offen im Denken

INTRO

Endless Research Opportunities for Early Career Researchers in the Ruhr Area

Welcome to the Ruhr – Germany's largest metropolitan area where innovative research meets strong networks! Benefit from a unique scientific diversity at Ruhr-Universität Bochum, TU Dortmund University, and the University of Duisburg-Essen: 49 faculties in total, a multitude of common research profiles and inter-university research projects as well as vibrant and international research communities.

Our three universities collaborate closely in the University Alliance Ruhr (UA Ruhr). The alliance fosters a wide range of joint research activities across disciplines and promotes strong national and international networks and cooperation. To promote bright minds and breakthrough innovations in the best possible way, all three universities offer tailored support structures, start-up consulting, and on-boarding for researchers from abroad.

Our future leaders-to-be participate in this huge research network and actively contribute to exceptional research: doctoral researchers come together in interdisciplinary training groups and postdoctoral researchers cooperate in cross-university research centers and programs.

UA RUHR RESEARCH ACADEMY

Excellent Support for Your Research Career

The UA Ruhr universities join forces in the Research Academy, one of the biggest platforms for supporting early career researchers in Germany, to offer you even more:

Advanced Master's students, doctoral and postdoctoral researchers benefit from competence-oriented workshops, interdisciplinary networking events, expert-based dialogues on career paths and individual consulting offers.

Research Academy supports about 14,000 early career researchers to advance their career in research, business, and society.

On the following pages we provide an overview of research institutions and key research areas within the UA Ruhr.

Explore your research opportunities in the Ruhr Area and join our strong network!

www.research-academy-ruhr.de

UNIVERSITY ALLIANCE RUHR

Better Together: Three Universities, One Academic Hub

Across universities and disciplines, leading researchers from the UA Ruhr universities join their research activities, networks, and expertise in research collaborations and projects. Together, the UA Ruhr provides the critical mass of staff and infrastructure needed to tackle major research topics. By offering best research environment and conditions, these innovative and promising research areas are attractive for scientists and scholars all over the world.

In 2021, the UA Ruhr established four research centers and one college under the umbrella of the Research Alliance Ruhr to bundle cutting-edge, international research on pressing issues facing the future:

- Research Center One Health Ruhr – from Molecules to Systems
- Research Center Chemical Sciences and Sustainability
- Research Center Trustworthy Data Science and Security
- Research Center Future Energy Materials and Systems
- College for Social Sciences and Humanities

While creating innovations for the world of tomorrow, this initiative also opens up new attractive career opportunities for excellent researchers at all stages of their careers.

UA RUHR

Further outstanding examples of vibrant cooperation within the UA Ruhr are several flagship programmes and competence fields in which numerous researchers from the UA Ruhr universities collaborate with non-university and international partners:

- Materials Chain
- RESOLV (Solvation Science)
- Energy – System – Transformation (EST)
- Metropolitan Research
- Empirical Economic Research (EMF)

Expertise in the humanities, social sciences, and cultural studies is bundled in the Institute for Advanced Study in the Humanities (KWI). In the tradition of international advanced study institutes, this inter-university institution encourages ambitious research in the humanities, international exchange, and intercultural dialogue with a particular focus on early career researchers and scholars.

www.uaruhr.de

RUHR-UNIVERSITÄT BOCHUM

Faculties

Natural and Life Sciences
- Biology and Biotechnology
- Chemistry and Biochemistry
- Geography and Geosciences
- Mathematics
- Medicine (RUB Clinics)
- Physics and Astronomy

Engineering
- Civil and Environmental Engineering
- Computer Science
- Electrical Engineering and Information Technology
- Mechanical Engineering

Humanities and Social Sciences
- Catholic Theology
- East Asian Studies
- Management and Economics
- History
- Law
- Philology
- Philosophy and Educational Research
- Protestant Theology
- Psychology
- Sport Science
- Social Science

Research Departments

- Center for Religious Studies
- Closed Carbon Cycle Economy
- IT Security
- Materials Research
- Neuroscience
- Protein Research
- Plasmas with Complex Interactions
- Solvation Science
- Subsurface Modeling and Engineering

Clusters of Excellence

- Cyber Security in the Age of Large-Scale Adversaries (CASA)
- Ruhr Explores Solvation (RESOLV): Understanding and design of solvent-dependent processes – a joint cluster with TU Dortmund University.

www.ruhr-uni-bochum.de

TECHNISCHE UNIVERSITÄT DORTMUND

Faculties

Natural and Life Sciences
- Chemistry and Chemical Biology
- Mathematics
- Physics
- Statistics

Engineering and Architecture
- Architecture and Civil Engineering
- Biochemical and Chemical Engineering
- Computer Science
- Electrical Engineering and Information Technology
- Mechanical Engineering
- Spatial Planning

Humanities and Social Sciences
- Arts and Sports Sciences
- Business and Economics
- Cultural Studies
- Education Sciences and Psychology
- Humanities and Theology
- Rehabilitation Sciences
- Social Sciences

Research Profile Areas

- 1: From Elementary Particles to Products along Value-added Networks
- 2: Innovations for Sustainability and Health
- 3: Data, Models and Simulations to Shape Our Future
- 4: Educational and Labor Worlds of Tomorrow
- 5: Society and Transformational Processes in the 21st Century

Clusters of Excellence

- Ruhr Explores Solvation (RESOLV): Understanding and design of solvent-dependent processes – a joint cluster with Ruhr-Universität Bochum.

- Color Meets Flavor: Search for new phenomena in strong and weak interactions

www.tu-dortmund.de

UNIVERSITÄT DUISBURG-ESSEN

Faculties

Natural and Life Sciences
- Biology
- Chemistry
- Mathematics
- Medicine
  (University Hospital Essen)
- Physics

Humanities and Social Sciences
- Economics and Business Administration
- Educational Sciences
- Humanities
- Mercator School of Management
- Social Sciences

Engineering
- Engineering
  - Civil Engineering
  - Electrical Engineering and Information Technology
  - Computer Science
  - Mechanical and Process Engineering

Research Centres

- CCSS – Center for Computational Sciences and Simulation
- CENIDE – Center for Nanointegration Duisburg-Essen
- CER.UDE – Center for Energy Research
- CINCH – National Research Center for Health Economics
- Erwin L. Hahn Institute for Magnetic Resonance Imaging
- EKfG – Essen College of Gender Research
- ICAN - Interdisciplinary Center for Analytics on the Nanoscale
- IN-EAST – Institute of East Asian Studies
- InZentIM – Interdisciplinary Centre for Integration and Migration Research
- IZfB – Interdisciplinary Centre of Educational Research
- Käte Hamburger Kolleg/Centre for Global Cooperation Research
- NETZ – NanoEnergieTechnik-Zentrum
- paluno – The Ruhr Institute for Software Technology
- ZLB – Centre for Teacher Education
- ZLV – Centre for Logistics and Traffic
- ZMB – Centre of Medical Biotechnology
- ZWU – Centre for Water and Environmental Research

www.uni-due.de

CONTACT

Get in touch and join our network!

Our website provides a compact overview of career options in the University Alliance Ruhr and of our services for international incoming researchers: **www.research-academy-ruhr.de/programm/international.html.en**

For any questions about Research Academy Ruhr's offers, reach out to **research-academy@uaruhr.de.**

Also follow us on

UA Ruhr Liaison Offices

Three liaison offices connect researchers, scholars and students by hosting conferences and public events, creating network opportunities and serving as an information platform:

- Liaison Office North America
- Liaison Office Latin America
- Liaison Office Eastern Europe/Central Asia

Learn more at www.uaruhr.de/international

Ruhr-Universität Bochum

technische universität dortmund

Universität Duisburg Essen
Offen im Denken

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