STUDYING STEM IN THE RUHR RESEARCH TRIANGLE

PETER ROSENBAUM
EXECUTIVE DIRECTOR
UNIVERSITY ALLIANCE RUHR
RUHR AREA
A REGION IN TRANSITION

Coal mining
Steel industries

Science
Research
Cultural hotspot
RUHR AREA
A REGION IN TRANSITION

- 5.3 million people from over 150 nations
- European Capital of Culture 2010
- Soccer: Home of BVB & FC Schalke 04
- Located in the heart of Europe (connections to many other European cities like Paris, Amsterdam, Berlin, Brussels)
UNIVERSITY ALLIANCE RUHR

THE UNIVERSITY ALLIANCE RUHR (UA RUHR) IS AN ALLIANCE OF RUHR UNIVERSITY BOCHUM (RUB), TU DORTMUND UNIVERSITY (TUDO) AND THE UNIVERSITY OF DUISBURG-ESSEN (UDE)

10 COLLABORATIVE RESEARCH CENTRES

115,000 STUDENTS
17% International students
1,300 PROFESSORS
9,300 RESEARCHERS

570 DEGREE PROGRAMS
62 International degree programs
17 Joint graduate programs

3 LIAISON OFFICES
Moscow + New York + Sao Paulo
UNIVERSITY ALLIANCE RUHR

RESEARCH PROFILES

- Protein research
- Interfacial chemistry
- Religious studies
- Plasma science
- Neuroscience
- Subsurface modeling and engineering

- Production and logistics
- Chemical biology and biotechnology
- Modeling and optimization of complex processes and systems
- Educational research

- Nanosciences
- Biomedical sciences
- Empirical research in education
- Urban systems
- Transformation of contemporary societies

RESOLV & MATERIALS CHAIN
UNIVERSITY ALLIANCE RUHR

STUDYING AT UA RUHR IN THE RUHR REGION

WHY STUDY AT UA RUHR?

- High academic standards and excellent reputation
- Many degree programs offered in English
- Close collaborations with industry partners in the region and beyond
- Strong focus on practice
- Internationally recognized degrees
- Outstanding employment opportunities

WHY STUDY IN THE RUHR REGION?

- Europe's third largest metropolitan areas
- Vibrant art, music and theater scene
- Extensive sports programs - soccer!
- Excellent infrastructure with one of the world's biggest public transportation networks
- High standard of living at affordable prices - living expenses in Dortmund are around EUR 650.00 including health insurance
APPLICATION AND ADMISSION

General

- M.A.: 2 years (4 semesters)
- Ph.D.: 3-5 years
- Language of instruction German and/or English depending on the program
- Semesters start in October (Winter) and April (Summer)

Requirements

- Undergraduate degree (B.A.)
- Good grades
- Proof of proficiency in German and/or in English depending on the program

Deadlines

- Deadlines for international students vary depending on the program
- Example: Application period for international students at TU Dortmund University for Summer Semester 2018: November 15, 2017 until January 15, 2018

Application documents

- School report, High School Diploma or similar
- Transcript of records including translation
- Graduation degree in the original language and a translation in German or English
- Additional documents may be required depending on country of origin and study program

Fees

- Semester fee of EUR 270.00, includes public transportation ticket
- Some graduate programs may charge an additional semester fee
M.Sc. Process Systems Engineering

Prepares students to work on the design and operation of complex chemical and biochemical production systems.

Special requirements:
- Prep course (see Semester 1)

Semester 1: Preparatory Semester with Intro to Process Systems, Lab Course, Language Course
- GER or ENG, Fundamentals of Chemical Engineering, Industrial Chemistry
- Semesters 2 & 3: Process Modeling and Optimization, Reaction Engineering, Fluid Separations, Particle Technology, Simulation Technology...
- Semester 4: Master Thesis

Semester fee of EUR 270.00
- Additional semester fee of EUR 480.00

Link
M.Sc. Spatial Planning

The program Urban Transformations prepares students in the fields of urban and regional planning, spatial planning and urban design.

Special requirements
240 ECTS credits or professional experience

2-semester program
+ Equip students with skills for managerial positions in professional practice
+ Provide them with a comprehensive overview of their subjects
+ Train them in advanced scientific methods

Semester fee of EUR 270.00

Link
International M.Sc. in Engineering

This degree program bridges the gap between technology and culture. Drawing on the expertise on one of Germany's largest engineering schools, the program offers a variety of specializations including:
M.Sc. Automation and Control Engineering
M.Sc. Communications Engineering
M.Sc. Computational Mechanics
M.Sc. Computer Engineering ... 5 more

Special requirements
GER and ENG at the B1 level

Semesters 1-3: Core Subjects, Advanced Theory, Profile Subjects, Electives
Semester 4: Master Thesis
Industrial Internship: Optional

Semester fee of EUR 270.00

Link
Ph.D. / B.Sc.-Ph.D. in Neuroscience

The International Graduate School of Neuroscience offers a Ph.D. program in all aspects of neuroscience from the molecular level to higher cognitive functions.

Special requirements
- M.A. or Diploma for Ph.D. program or B.A. in STEM for B.Sc.-Ph.D. program
- ENG at the B2 level
- Subject test and interview

6 semesters with obligatory courses, lab and symposia

Semester fee of EUR 270.00

Link
International Summer Program (ISP)
June 3 - August 10, 2018

- 8-week program
- Students are integrated into regular summer semester courses and campus life
- Courses taught in English
- German Language Course
- Cultural program & excursions
- Research project possible

- 2 Tracks
  Track A: Engineering (Applied Math, Automation and Robotics, Biochemical and Chemical Engineering, Computer Science, Business and Economics, German Culture)
  Track B: German & European Culture

Link
Research Academy Ruhr

- Germany's largest platforms to support young researchers and prepare them for careers inside and outside academia
- Features
- Career counseling
- Grant writing workshops
- Qualification programs
- Funding opportunities for research and travel
- Networking platforms

Link
Engineering Unit Ruhr (EUR)
TU Dortmund & Ruhr University Bochum

Leading center for research and innovation in the field of engineering in the Ruhr area

Cooperation between mechanical engineering faculties at TU Dortmund University & Ruhr University Bochum

7 study programs ranging from Mechanical Engineering to Teaching Technical Sciences

Goals:
- Combining resources
- Advancing the Ruhr Area
- Train skilled engineers
- Innovation
- Cutting-edge technology
- Building links to corporations
CONTACT
Peter Rosenbaum
UA Ruhr Liaison Office North America
871 United Nations Plaza
New York, NY 10017
Phone: +1 (212) 758-3384
office@uaruhr.org

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@uniallianz

THANK YOU!