Ruhr Fellowships at the Ruhr Universities
Dortmund is part of the Ruhr Area in central Europe
The largest metropolitan area in Germany
The Ruhr Area
The Ruhr Area – “The Cradle of Industry”

- 5,300,000 people from over 150 nations
- European Capital of Culture 2010
- Half of the landscape is green
- Traditional coal and steel mills have been transformed into creative spaces/cultural hotspots

Dortmund? ... Never heard of it!
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Dortmund
- First mentioned in the 880s
Dortmund

- First mentioned in the 880s
- Industrial history in coal and steel; since the 80s its face has been continually changing
- People are uncomplicated and straight forward
- Population of 600,000; famous for its soccer club and beer
Discover Dortmund!

- Harenberg Center
- City Library
- Dortmund U
- Westfalenpark
- Reinoldi Kirche
- Opera
- Shopping on Westenhellweg
- Old Market Place
- Subrosa Bar
- Concert Hall
- Signal Iduna Park
- Opera

Concert Hall
And it is not far from Berlin, Paris, Amsterdam, Brussels, Luxemburg, ...
16 Faculties

- Mathematics
- Physics
- Chemistry
- Computer Science
- Statistics
- Biochemical and Chemical Engineering
- Mechanical Engineering
- Electrical Engineering and Information Technology
- Spatial Planning
- Architecture and Civil Engineering
- Business, Economics and Social Sciences
- Education and Sociology
- Rehabilitation Sciences
- Human Sciences and Theology
- Culture Studies
- Art and Sport
25,000 students, 300 professors, 3,700 employees

Uniquely organized teamwork among the faculties
- Production & Logistics
- Chemical Biology and Biotech.
- Modeling, Simulation & Optimization
- Youth, School & Educ. Research

Over 60 Bachelor and Master degree programs; wide-ranging teacher-training with 35 subjects

10,5% international students
Cooperation with affiliated and external institutes (i.e. max Planck Institute for Molecular Physiology) and scientific institutes (i.e. Robotics Research Institute)
### Collaborative Research Centers
- 3D-Surface Engineering of Tools for Sheet Metal Forming – Manufacturing, Modeling, Machining
- Statistical Modelling of Nonlinear Dynamic Processes
- Providing Information by Resource-Constrained Data Analysis

### CRC Participation
- Shape memory Technology – Fundamentals, Application & Processing
- GTP- and ATP-Dependant Membrane Processes

### Priority Programs
- Intelligent Hydrogels
- Modelling, Simulation and Compensation of Thermal Effects from Complex Machining Processes
- Financial Market Imperfections and Macroeconomic Performance

### Tranregios
- Integration of Forming, Cutting, and Joining for the Flexible Production of Lightweight Frame Structures
- Process-Integrated Manufacturing of Functionally-Graded Structures based on Coupled Thermo-Mechanical Phenomena
- Integrated Chemical Processes in Liquid Multiphase Systems - InPROMPT
- Manufacturing of Complex Functional Components with Variants by Using a New Sheet Metal Forming Process – Sheet-Bulk Metal Forming

### Research Units
- Examination of Mechanisms of Action of Electromagnetic Metal Forming
- Analysis and stochastics in complex physical systems
- Statistical Regularisation and Qualitative Constraints - Inference, Algorithms, Asymptotics and Applications
- Development of an In-Process Material Model of Light Metal Extrusion for the Continuous Optimization of the Process Chain
- Quantum Computing in Isotopically Engineered Diamond
Germany’s Academic Triangle

All located within 20 minutes of one another along the Ruhr River

Germany’s largest academic hub

- 4 Fraunhofer Institutes, 3 Max-Planck Institutes, 18 Collaborative Research Centers

100,000 students, over 6,000 researchers and professors

A unique interdisciplinary approach
The "Ruhr Fellowship" Program

June: University
Orientation on campus /with company
German Language, Culture and Leadership Seminar Program at the host universities
Cultural and industrial excursions

July: Industry
Explore the German work environment with one of the leading German global players
One month intensive project with one of the companies in the Initiativkreis Ruhr

Parallel:
Access to top executives in exclusive roundtable discussions and company visits
How to apply for a Ruhr Fellowship

Application deadline: February 15, 2012

Please send the following documents to Laura Hope at TU Dortmund University

1. Statement of purpose (your academic development, your practical experience, motivation to participate in the program)
2. Letter of recommendation
3. Transcript of records
4. Résumé

Further Information:
http://www.conruhr.org/page/us_students/

Contact:
Mrs. Laura Hope
Internship Coordinator
TU Dortmund University
44221 Dortmund
Germany

+49-231-755-4728
laura.hope@tu-dortmund.de
The Ruhr Fellowship includes:

- Round-trip flight
- Fee waivers for all courses, registration at the host university
- A single room in a student dormitory
- A ticket for public transportation (NRW) for the duration of the program
- Health insurance for the entire stay
- Leisure and cultural activities as organized by the host universities (bike rental fees/admission fees may apply)
### Events in Dortmund – Last year’s (uni-)program

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>June 3 – 5</td>
<td><em>Eurocityfest</em> (Open Air Party), Münster city</td>
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<tr>
<td>June 6 (Monday) - 11am</td>
<td><em>Dortmund kurz und gut</em> (<em>Dortmund in short</em> – guided tour through Dortmund in German)</td>
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<tr>
<td>June 10 (Friday) - 9pm</td>
<td>Sportlerparty (party organized by the sports department)</td>
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<tr>
<td>June 16 (Thursday) - 8pm</td>
<td><em>Summertimes</em> (Openair Party, organized by the LogWings department)</td>
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<td>June 17 (Friday) - 8pm</td>
<td><em>Zoo by night</em> (guided tour in German through the Dortmund Zoo)</td>
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<td>June 20 (Monday) - 7:30pm</td>
<td>German Poetry Slam at <em>subrosa</em>,</td>
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<tr>
<td>June 20 (Monday) - 6-8pm</td>
<td><em>Second Monday</em> (monthly varying international events for all students, organized by the departments)</td>
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<tr>
<td>June 25 (Saturday) - 7pm</td>
<td><em>Spanish Night</em>, Westfalenpark</td>
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<td>June 22 (Wednesday)</td>
<td><em>Dorfparty</em> (student party around student residence Studentendorf”)</td>
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<tr>
<td>July 4 (Monday)</td>
<td>4&lt;sup&gt;th&lt;/sup&gt; of <em>July party</em> (BBQ organized by English department)</td>
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<tr>
<td>July 7 (Thursday) - 3pm</td>
<td>TU Dortmund University Sommerfest</td>
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<tr>
<td>Date</td>
<td>Excursion</td>
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<tr>
<td>June</td>
<td>BBQ</td>
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<tr>
<td>June</td>
<td>Soccer tournament</td>
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<tr>
<td>June 1 (Wednesday)</td>
<td>EF party</td>
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<td>June 2 (Thursday - holiday)</td>
<td>Dortmund City Tour</td>
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<td>June 8 (Wednesday)</td>
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<tr>
<td>June 14 (Tuesday)</td>
<td>International Stammtisch</td>
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<tr>
<td>June 16</td>
<td>excursion to Opel</td>
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<tr>
<td>June 18</td>
<td>in the morning/afternoon</td>
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<tr>
<td>June 22 (Wednesday)</td>
<td>Dorfparty</td>
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<tr>
<td>June 22 (Wednesday)</td>
<td>Sommerfest RUB</td>
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<td>June 29 (Wednesday)</td>
<td>Klettergarten</td>
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<tr>
<td>July</td>
<td>Water Ski</td>
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<tr>
<td>July 4 (Monday)</td>
<td>4th of July party</td>
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<tr>
<td>July 7 (Thursday)</td>
<td>Steinwache</td>
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<tr>
<td>July 9 (Saturday)</td>
<td>Extraschicht (Nachter Industriekultur)</td>
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<td>July 15 (Friday)</td>
<td>Kölner Lichter</td>
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<tr>
<td>July 15 (Friday)</td>
<td>BBQ</td>
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<tr>
<td>July 22 (Friday)</td>
<td>high ropes course</td>
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<tr>
<td>July 23 (Saturday)</td>
<td>Tbc</td>
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<tr>
<td>July 24 (Sunday)</td>
<td>Tbc</td>
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<tr>
<td>Every Monday during the lecture period</td>
<td>Stammtisch</td>
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<tr>
<td>Dresden</td>
<td>Trip to Dresden</td>
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Bike tour to three castles...
Meeting of the Minds (with DAAD RISE scholars)
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- Health insurance for the entire stay
- Leisure and cultural activities as organized by the host universities (bike rental fees/admission fees may apply)
- Access to the universities’ alumni programs and international network
Alumni Workshop 2011 in NYC
“Living in Europe gave me the chance to see many different lands and cultures and to work in an academic environment different from the one I had been in until that time, but the most important aspect was the many different friends from different cultures I made while there.”

David Watson,
New Mexico State University