RWTH Aachen University at a Glance …innovative since 1870.

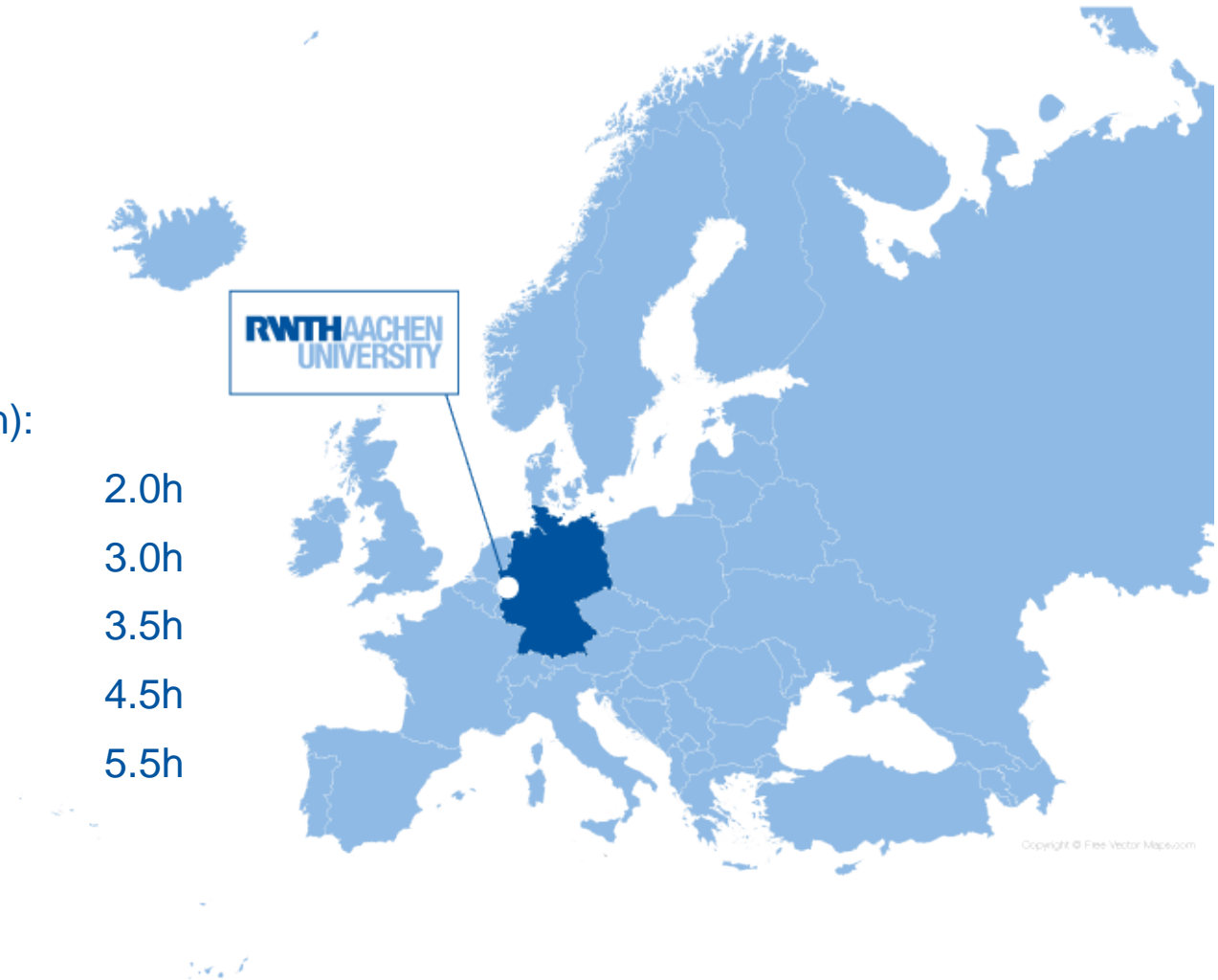**RWTH Aachen University at a Glance**
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Location of RWTH Aachen University

RWTH Aachen University at a Glance
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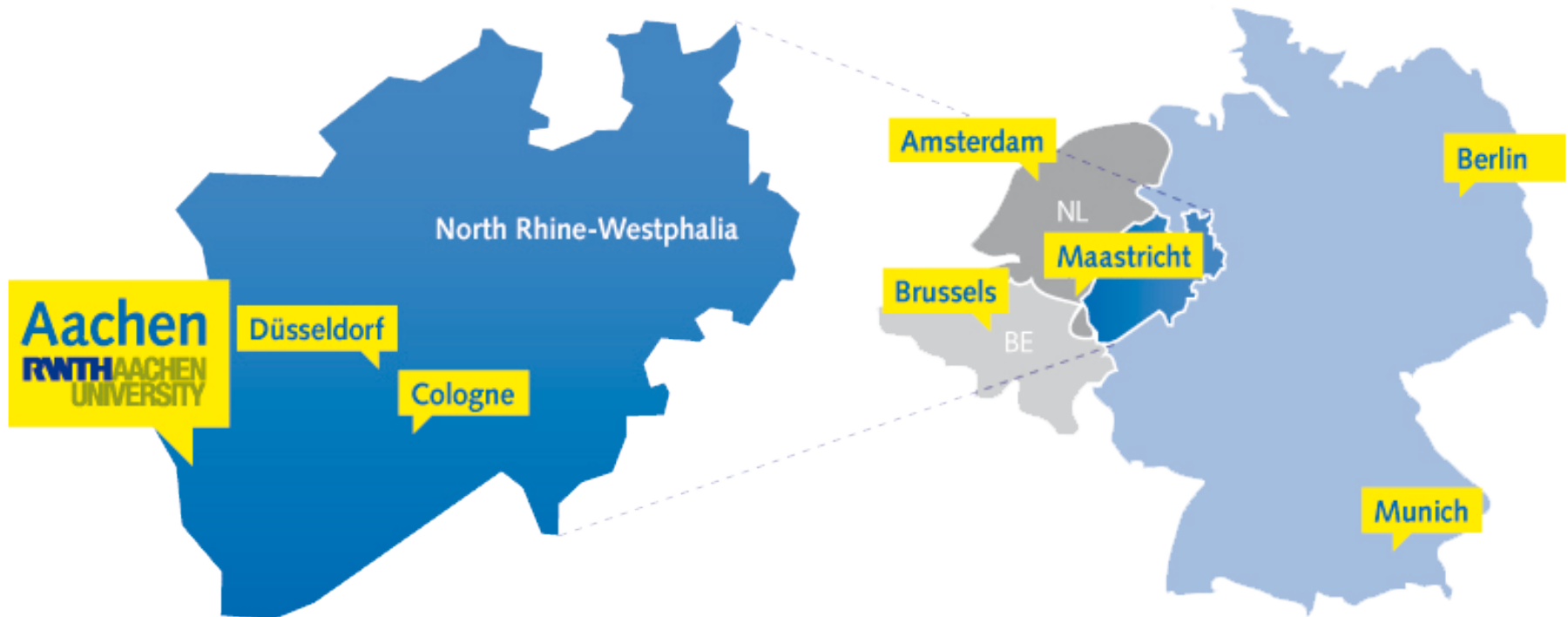
Location of RWTH Aachen University

Travel distances (by train):

Aachen – Brussels: 2.0h

Aachen – Paris: 3.0h

Aachen – Amsterdam: 3.5h
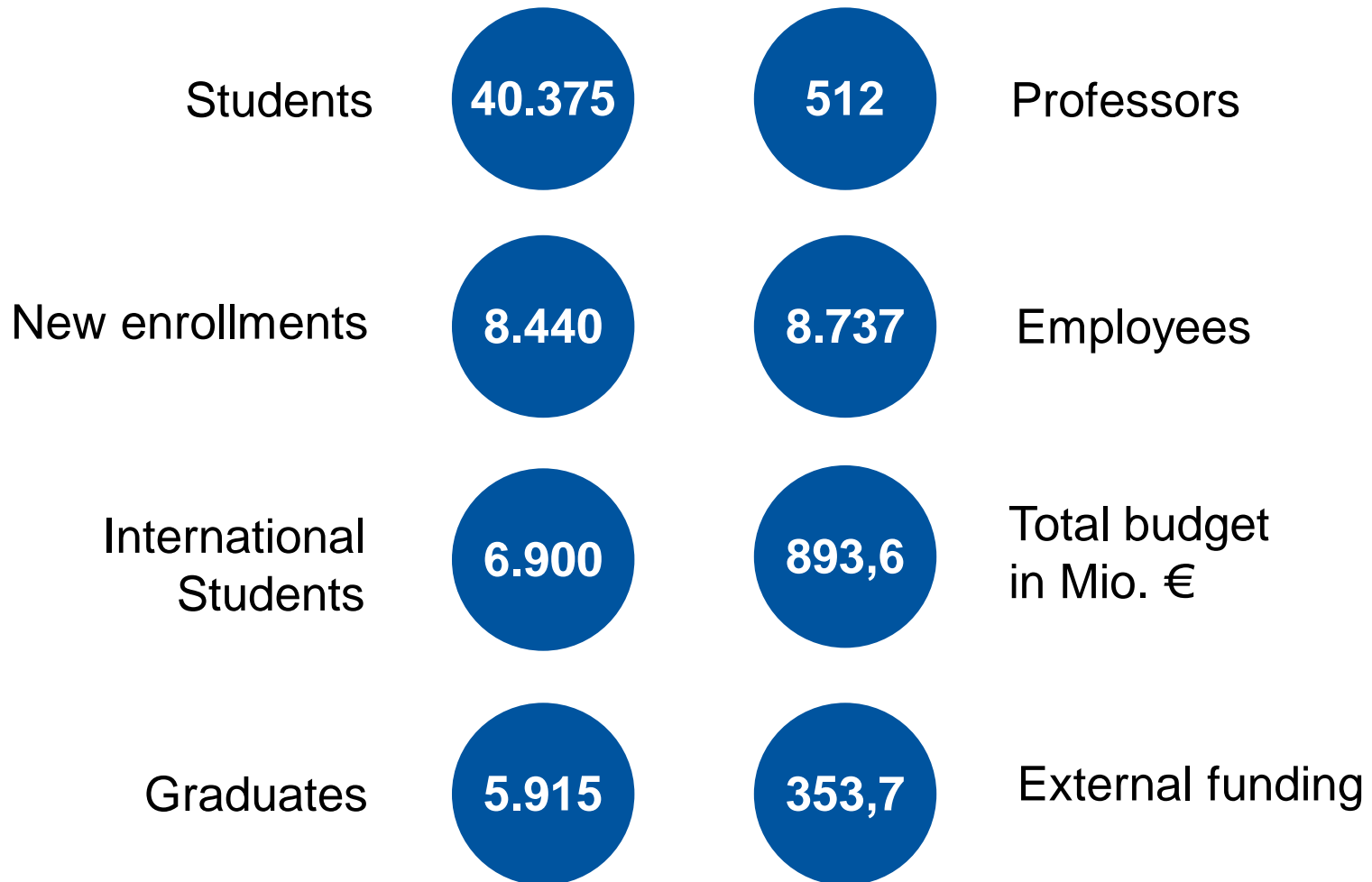
Aachen – London: 4.5h

Aachen – Berlin: 5.5h

The acronym

R W T H

=

Air Vay Tay Ha

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RWTH Aachen University:
The Big Picture in Figures

RWTH AACHEN UNIVERSITY

Students — **40.375** · **512** — Professors

New enrollments — **8.440** · **8.737** — Employees

International Students — **6.900** · **893,6** — Total budget in Mio. €

Graduates — **5.915** · **353,7** — External funding

Faculties of RWTH Aachen University

Faculty 1: Mathematics, Computer Sciences & Natural Sciences

Faculty 2: Architecture

Faculty 3: Civil Engineering

Faculty 4: Mechanical Engineering

Faculty 5: Georesources & Materials Engineering

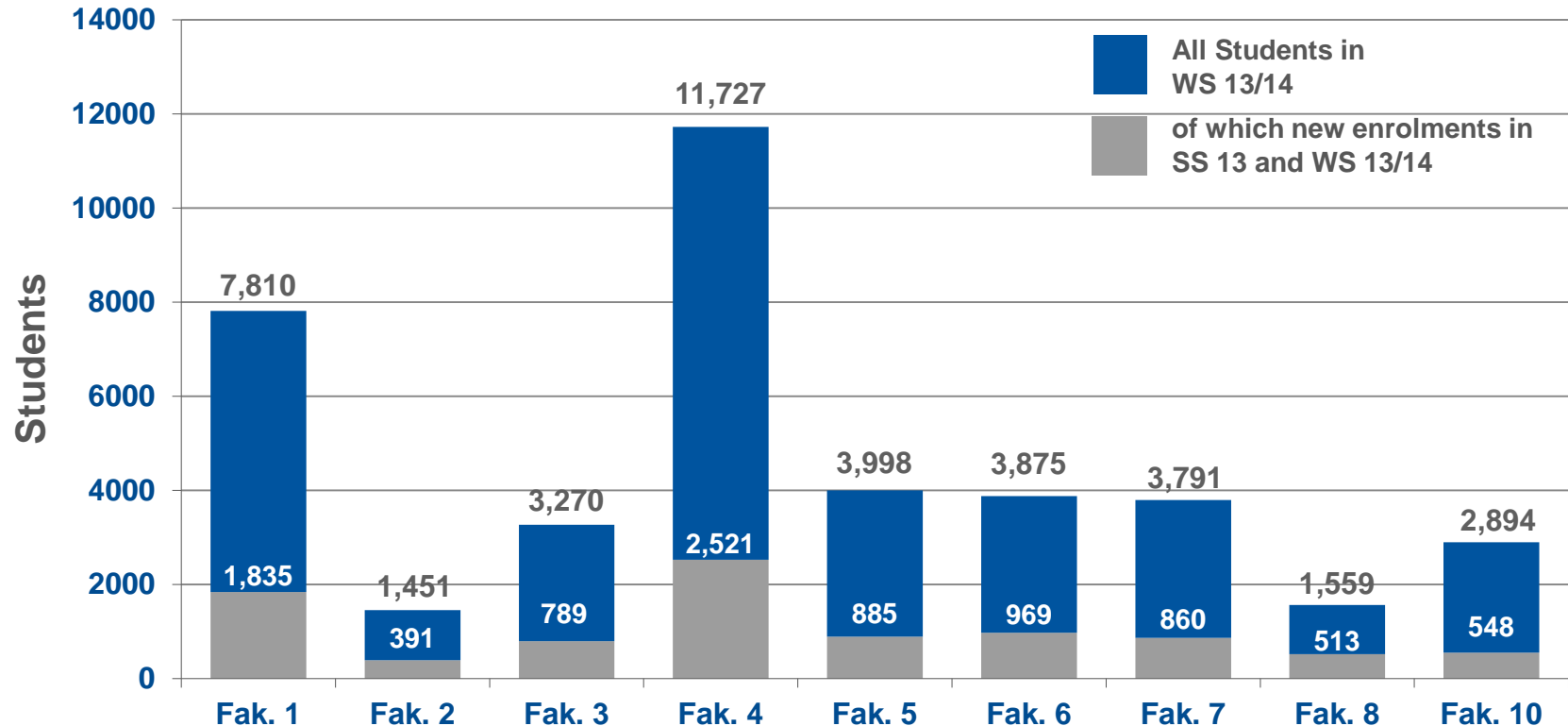Faculty 6: Electrical Engineering & Information Technology

Engineering

Faculty 7: Arts & Humanities

Faculty 8: Business Administration & Economics

Faculty 10: Medicine

RWTH Aachen University at a Glance
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Students by Faculty

Fac. 1: Faculty of Mathematics, Computer Science and Natural Sciences
Fac. 2: Faculty of Architecture
Fac. 3: Faculty of Civil Engineering
Fac. 4: Faculty of Mechanical Engineering
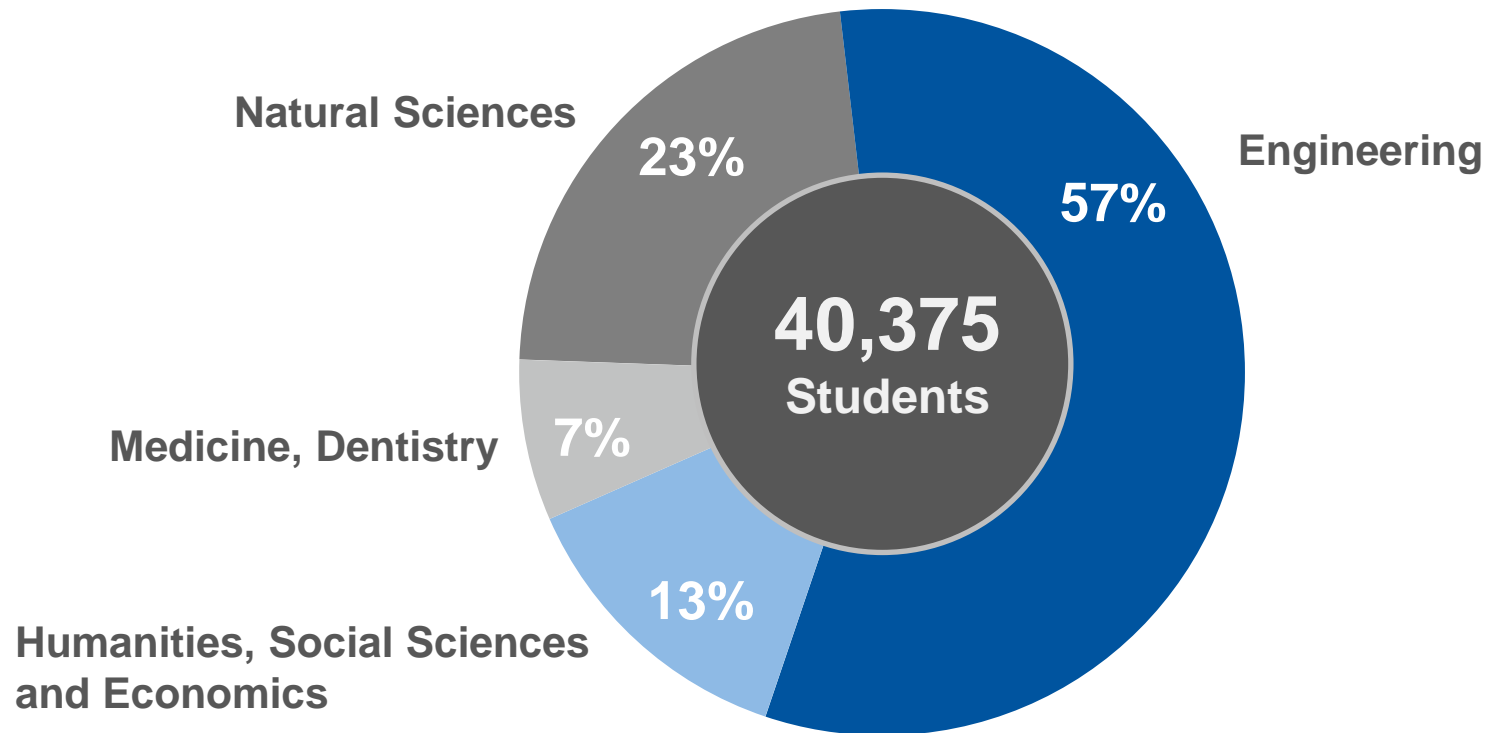Fac. 5: Faculty of Georesources and Materials Engineering
Fac. 6: Faculty of Electrical Engineering and Information Technology
Fac. 7: Faculty of Arts and Humanities
Fac. 8: Faculty of Business Administration and Economics
Fac. 10: Faculty of Medicine

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Students by Discipline

- Engineering 57%
- Natural Sciences 23%
- Humanities, Social Sciences and Economics 13%
- Medicine, Dentistry 7%

40,375 Students

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Degree Programs
Bachelor and Master (1/3)

Faculty 1 — Faculty of Mathematics, Computer Science and Natural Sciences

Biology (B.Sc./M.Sc.)

Molecular and Applied Biotechnology (B.Sc./M.Sc.)

Chemistry (B.Sc./M.Sc.)

Computer Science (B.Sc./M.Sc.)

Mathematics (B.Sc./M.Sc.)

Physics (B.Sc./M.Sc.)

Media Informatics (M.Sc., B-IT)

Ecotoxicology (M.Sc.)

Software Systems Engineering (M.Sc.)

Faculty 2 — Faculty of Architecture

Architecture (B.Sc./M.Sc.)

Urban Planning (M.Sc.)

Faculty 3 — Faculty of Civil Engineering

Civil Engineering (B.Sc./M.Sc.)

Mobility and Transport (B.Sc./M.Sc.)

Environmental Engineering (B.Sc./M.Sc.) (Coop. Fac. 5)

Business Administration and Engineering: Civil Engineering (B.Sc./M.Sc.) (Coop. Fac. 8)

Faculty 4 — Faculty of Mechanical Engineering

Mechanical Engineering (B.Sc./M.Sc.)

Computational Engineering Science (B.Sc./M.Sc.)

Business Administration and Engineering: Mechanical Engineering (B.Sc./M.Sc.) (Cooperation with Fac. 8)

General Mechanical Engineering (M.Sc.)

Automation Engineering (M.Sc.)

Automotive Engineering (M.Sc.)

Energy Engineering (M.Sc.)

Development and Design Engineering (M.Sc.)

Automotive Engineering and Transport (M.Sc.)

Plastics and Textile Technology (M.Sc.)

Aeronautical Engineering and Astronautics (M.Sc.)

Production Engineering (M.Sc.)

Process Engineering (M.Sc.)

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Faculty 5 — Faculty of Georesources and Materials Engineering

Applied Geography (B.Sc./M.Sc.)

Applied Geosciences (B.Sc./M.Sc.)

Waste Management Engineering (B.Sc./M.Sc.) (Coop. Fac. 3)

Georesources Management (B.Sc./M.Sc.)

Materials Science (B.Sc./M.Sc.)

Mineral Resources Engineering (B.Sc./M.Sc.)

Materials Engineering (B.Sc./M.Sc.)

Industrial Engineering – Branch of study Raw Materials and Materials Technology (B.Sc./M.Sc.) (Coop. Fac. 8)

Applied Geophysics (M.Sc. – IDEA League)

Energy Engineering (M.Sc.)

Metallurgical Engineering (M.Sc.)

Sustainable Power Supply (M.Sc.)

Nuclear Safety Engineering (M.Sc.)

Economic Geography (M.Sc.)

Faculty 6 — Faculty of Electrical Engineering and Information Technology

Electrical Engineering, Information Technology and Computer Engineering (B.Sc./M.Sc.)

Business Administration and Engineering – Electrical Power Engineering (B.Sc./M.Sc.) (Coop. Fac. 8)

Faculty 7 — Faculty of Arts and Humanities

Social Science (B.A.)

Literary and Linguistic Studies (B.A.)

Psychology (B.Sc./M.Sc.)

Technical Communication (B.Sc./M.Sc.) (Communication Studies and

- Fundamentals of Computer Science or

- Fundamentals of Mechanical Engineering or

- Fundamentals of Materials Engineering or

- Fundamentals of Electrical Engineering)

Education and Knowledge Management (M.A.)

English Studies (M.A.)

European Studies (MES) (M.A.)

German and General Literature (M.A.)

History (M.A.)

Philosophy (M.A.)

Political Science (M.A.)

Sociology (M.A.)

Linguistics and Communication Studies (M.A.)

Degree Programs
Bachelor and Master (3/3)

Faculty 8	Faculty of Business Administration and Economics

Business Administration (B.Sc./M.Sc.)

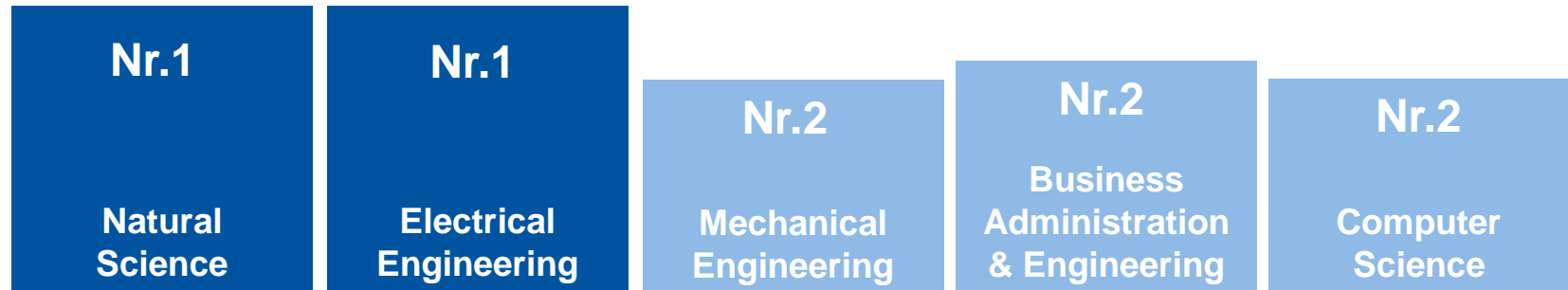**Economics (M.Sc.)**

Faculty 10	Faculty of Medicine

Logopaedics, Dual Course of Studies (B.Sc.)

Teaching and Research Logopaedics (M.Sc.)

Biomedical Engineering (M.Sc.)

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English-taught Master`s programs

- **Applied Geophysics (Joint Master`s program with TU Delft and ETH Zuerich)**

- **Automotive Engineering**

- **Biomedical Engineering**

- **Electrical Engineering, Information Technology & Computer Engineering; specializations: Communications Engineering or Electrical Power Engineering**

- **Media Informatics**

- **Metallurgical Engineering**

- **Physics**

- **Software Systems Engineering**

- **Simulation Sciences**

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Rankings 2014

Nr.1

Natural Science

Nr.1

Electrical Engineering

Nr.2

Mechanical Engineering

Nr.2

Business Administration & Engineering

Nr.2

Computer Science

2

1

3

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International Rankings

Q&S Ranking 2014/15

Faculties:

- Ranked #36 in Natural Science

- Ranked #42 in Engineering and Technology

Subjects:

- Ranked #12 in Mechanical, Aeronautical & Manufacturing Engineering

- Ranked #29 in Materials Science

- Ranked #30 in Physics & Astronomy

- Ranked #34 in Chemical Engineering

- Ranked #40 in Chemistry

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RWTH Aachen Innovation Campus

One of the largest European research territories
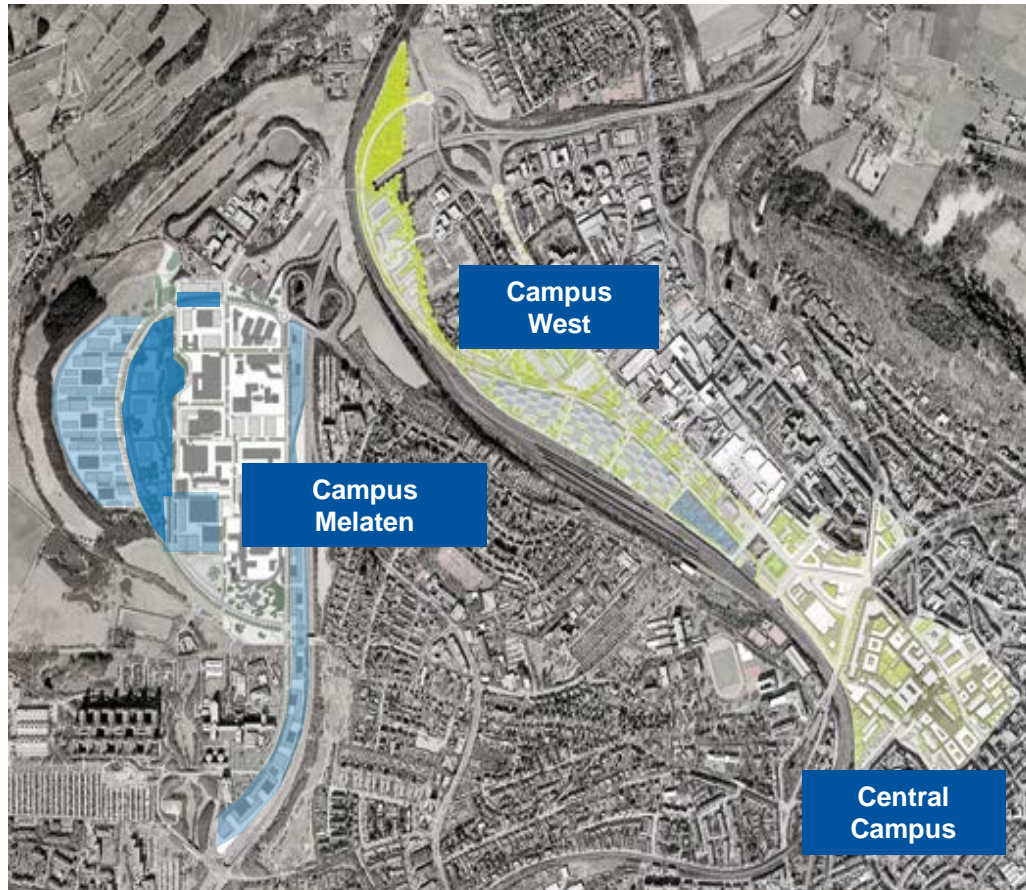
With its two new areas, RWTH Aachen University covers a total area of approx. 2.5 km².
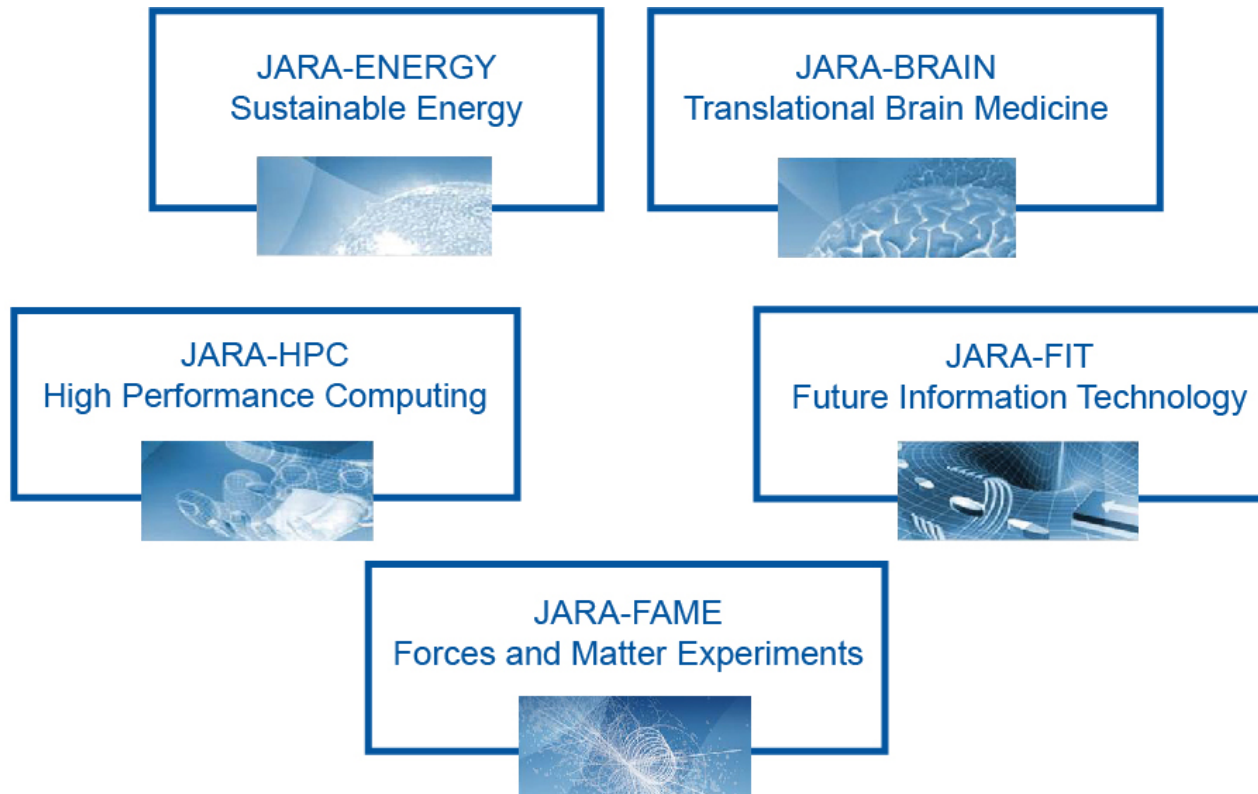
This makes RWTH Aachen University one of the largest technology-oriented campus areas in Europe.

The RWTH Aachen Campus

→ Area: 800.000 m²

→ Volume of investments: 2 bn €

→ New direct and indirect jobs: approx. 10.000

▢ Cluster area
▢ Central infrastructural facilities

Juelich Aachen Research Alliance

JARA-ENERGY
Sustainable Energy

JARA-BRAIN
Translational Brain Medicine

JARA-HPC
High Performance Computing

JARA-FIT
Future Information Technology

JARA-FAME
Forces and Matter Experiments

- Linkage of a university and a major research institution as cores of excellence
- Approx. 175 professors are part of this alliance

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The Excellence Initiative at RWTH Aachen University

Awarded the status of „top class university" as part of the federal government's „Excellence Initiative"

Institutional Strategy

RWTH 2020: Meeting Global Challenges
funding: € 60 Mio.

Graduate School

Aachen Institute of Advanced Study in Computational Engineering Science (AICES)
funding: € 7.4 Mio.

Cluster of Excellence

Integrative Production Technology for High-Wage Countries
funding: € 28 Mio.

Tailor-Made Fuels from Biomass (TMFB)
funding: € 28 Mio.

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"Place to be"

"Mobilizing people"

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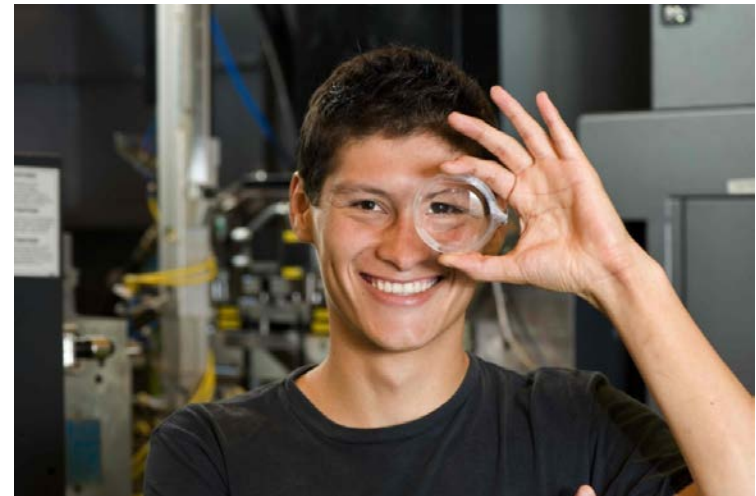
UROP International:
Research Summer School

- program dates: May 18th – July 24th, 2015
- first two weeks: intensive language training & workshops
- eight weeks of full-time research work (& some language hrs)

WEEK 1	WEEK 2	WEEK 3	...	WEEK 10

Language Training [6 hrs per week]

Intensive Language Training
[20 hrs per week]

Project Work
[full time, ~ 35 hrs per week]

Field Trips, Leisure Activities, Excursions

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UROP Participants 2015

- 51 students from 26 different universities

- 38 from US universities, 13 from Canadian universities

- 22 female / 29 male

Age (as of today)	
19	12
20	21
21	10
22+	8

Departments	8
Faculty of Mathematics, Computer Science and Natural Sciences	13
Faculty of Architecture	2
Faculty of Civil Engineering	2
Faculty of Mechanical Engineering	22
Faculty of Georesources and Materials Engineering	2
Faculty of Electrical Engineering and Information Technology	2
School of Business and Economics	2
Faculty of Medicine	6

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UROP Participants 2015

US	38
Carnegie Mellon University	1
Columbia University	1
Georgia Institute of Technology	3
Harvard University	2
Iowa State University	6
Johns Hopkins University	2
Massachusetts Institute of Technology	1
Seattle University	1
Temple University/Philadelphia	1
University of Arizona	4
University of California, Berkeley	1
University of Florida	1
University of Michigan	7
University of Pennsylvania	1
University of Rochester	1
University of Texas at Austin	1
University of Texas at Dallas	1
University of Virginia	1
Washington University in St. Louis	1
Yale University	1

Canada	13
McGill University	1
University of Alberta	1
University of Saskatchewan	1
University of Waterloo	5
University of British Columbia	4
University of Ottawa	1

"Place to be"

"Mobilizing people"

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