Faculty of Mechanical Engineering at RWTH Aachen University
Outline

- The Faculty’s position as part of RWTH Aachen University
- Degree Programs
- Structure and Funding
- Excellence Initiative and Interdisciplinary Research Partnerships
- Appropriation of Tuition Fee Substitutes
- Faculty International
The Faculty’s position as part of RWTH Aachen University
Management

Ruth Heßberger, M. A.
Managing Director
  • Faculty Council, Council of Elders, Dean‘s Meeting
  • Appointments, Controlling, Habilitations

Dipl.-Ing. Julia Meul
Substitute Managing Director
  • Head of Teaching and Learning Division
  • Lecture Hall Management
Divisional Management

Olaf Straube
Head of IT and Media Division
- Network
- Databases

Marco Pingen
Head of Budget and Human Resources Division
- Advisor for Accounting, Budget and Human Resources
- Quality Improvement Funds
Dean’s Office Administration

Fayadh Al-Saad, M. Sc.
Assistant to the Dean
  • Examination Board Mechanical Engineering
  • Study Counselor Mechanical Engineering

Kaihan Behbahani
Apprentice
  • Trainee as Mathematical Technical Software Developer (MATSE)

Sophia Blomeyer, LL.M.
Assistant to the Dean
  • Examination Boards
  • Application Review
Dean's Office Administration

Jannik Braß
- Organisation of Academic Matters

Maria Camacho van den Hurk, M. Sc.
Mentoring and Psychological Counselling
- Mentoring, Psychological Counseling and Learning Strategies for all students of the Faculty of Mechanical Engineering

Monika Dahmen-Göbbels
Doctoral Studies
- Doctorate Procedure
- Graduation Statistics
- Teaching Assignments
Dean’s Office Administration

Andrea Dohms, M. A.
Academic Advisor and Gender and Diversity
  • Gender and Diversity
  • Coordination Gender AG
  • Study Counselling
  • RWTH Education Fund

Sarah Etzold
Apprentice
  • Trainee in Office Management

Dipl.-Kff. Stefanie Feurstein
Controlling and Finance
  • Accounting
  • Quality Improvement Funds
Dean’s Office Administration

Thomas Fieder, B. Sc.
PuL and CAMPUS - Support
• CAMPUS Modulemanagement

Sabrina Grübener, M. A.
Advisor of the Study Advisory Council
• Advisor of the Study Advisory
• Advisor of the Student Learning Assessment Committee

Krista Haldenwang
IT Specialist
• Databases
Dean’s Office Administration

**Farah Jumpertz, M. A.**
Coordinator for International Relations and Assistant to the Dean
- Establishment and Support of Faculty Contacts Abroad
- International Cooperation
- Study Abroad Counsel
- Examination Board Mechanical Engineering

**Dipl.-Kff. Jessica Koch**
Assistance of the Managing Director
- Advisor of the Strategy Committee
- Appointments

**Stefan Köpke**
Internship Office
- Accreditation of performed internships
Dean’s Office Administration

**Alexandra Levay**  
Public Relations and Media  
- Photography and Graphics  
- External Presentation, Print Media  
- Website, Social Media  
- Event Management

**Dipl.-Ing. Ulrike Lützow**  
Assistant to the Dean  
- Master degree application  
- Examination Board of Automation Engineering

**Vera Mattner**  
Coordinator for International Relations and Assistant to the Dean  
- Establishment and Support of Faculty Contacts Abroad  
- International Cooperation  
- Study Abroad Counsel  
- Examination Board Computational Engineering Science and SiSc
Dean’s Office Administration

Dipl.-Wirt.-Ing. Martin Müller
Assistant to the Dean
• Examination Board Business Administration and Engineering
• Study Counselor Business Administration and Engineering
• Study Counselor of mechanical engineering related teaching degrees

Pascal Pütz
Apprentice
• Trainee in Office Management

Dipl.-Psych. David Reinhaus
Mentoring and Psychological Counselling
• Mentoring, Psychological Counseling and Learning Strategies for all students of the Faculty of Mechanical Engineering
Dean’s Office Administration

Seda Sancaktar
Managing Director’s Office
• Office Task

Manuela Zehnter, M. A.
Assistant to the Dean
• Assistance of the Substitute of Management
• Examination Board Mechanical Engineering

Dipl.-Übers. Antje Zimmermann
Coordinator for International Relations and Assistant to the Dean
• Establishment and Support of Faculty Contacts Abroad
• International Cooperation
• Study Abroad Counsel
• Degree Program Technical Communication
Unique Features of the Faculty of Mechanical Engineering

• We are no. 1 in most rankings of mechanical engineering in Germany.
• We provide 40 % of third-party funds of RWTH Aachen University.
• With 2,260 (WS 17/18) first-year students, we are one of the largest faculties of mechanical engineering in Europe.
• We are involved in 5 of 14 collaborative research centers at RWTH Aachen University.
• We are involved in 5 of 8 Steering Commitees at RWTH Aachen University.
• With 7 Bachelor and 17 Master degree programs we cover the whole scope of machine technology, chemical and process engineering
Advertising Mechanical Engineering
Activities at Faculty of Mechanical Engineering

• Consulting Days for pupils in January
• Study Information Day (RWTH Berufetag)
• Girls’ Day & Boys’ Day
• Science Nights “5 vor 12”
• Lecture series “What’s a steam engine?”
  Technological phenomena in the engineering sciences
• Chemical Engineering Day
• RoboScope - Interdisciplinary Robotics Laboratory
• CAMMP - Computational and Mathematical Modeling Program (RWTH Education Laboratory)
• Unihits for Kids and Kids University
• Visits to Institutes
• Speeches in High Schools
• Ladies’ Talk
• Ladies’ Start
• Ladies‘ Career
Degree Programs
Discontinued Degree Programs (1)

- Diploma Program Mechanical Engineering
- Diploma Program Business Administration and Engineering
- Diploma Program Computational Engineering Science
- Joint Diploma and Teacher Trainee Program Mechanical Engineering
- Teacher Training Programs (State Exam) for Vocational Schools in the fields
  - Machine Technology
  - Supply Technology
  - Textile and Clothing Technology
  - Automotive Technology
  - Manufacturing Technology
Degree Programs of the
Faculty of Mechanical Engineering

Discontinued Degree Programs (2)

• Magister Program Communication in Technology,
  2nd Major Basic Principles of Mechanical Engineering
• Non-Consecutive Master Programs
  – Chemical Engineering
  – Energy Engineering
  – Automotive Engineering
  – Production Technology
• English-taught Programs at RWTH International Academy
  – Automotive Engineering
  – Combustion Engines
Bachelor Programs

- Mechanical Engineering
- Business Administration and Engineering
- Computational Engineering Science
- Technical Communication,
  2nd Major Basic Principles of Mechanical Engineering
- Teacher Training Programs for Vocational Schools in the fields
  - Machine Technology
  - Supply Technology
  - Textile and Clothing Technology
  - Automotive Technology
  - Manufacturing Technology
Degree Programs of the
Faculty of Mechanical Engineering

Master Programs (1)

- Mechanical Engineering
  - Production Technology
  - Development and Design Engineering
  - Chemical Engineering
  - Energy Engineering
  - Plastics and Textile Engineering
  - Automotive and Transportation Engineering
  - Aerospace Engineering
  - General Mechanical Engineering
Master Programs (2)

- Business Administration and Engineering
- Computational Engineering Science
- Automation Technology (interdisciplinary)
- Simulation Sciences (interdisciplinary)
- Technical Communication,
  2nd Major Basic Principles of Mechanical Engineering
- Teacher Training Programs for Vocational Schools in the fields
  - Machine Technology
  - Supply Technology
  - Textile and Clothing Technology
  - Automotive Technology
  - Manufacturing Technology
Master Programs (3)
Privately offered by the RWTH International Academy in collaboration with RWTH Aachen.

- English-taught Programs at RWTH International Academy
  - Computer Aided Conception and Production in Mechanical Engineering
  - Production Systems Engineering
  - Management and Engineering in Production Systems
  - Management and Engineering in Computer Aided Mechanical Engineering

- German-taught Programs at RWTH International Academy
  - Machine Technology
  - Tool Design and Construction
  - Textile Engineering
Structure of the Mechanical Engineering Program at RWTH Aachen University

**Bachelor**
- 7 semesters
- 1 bachelor program
- 1st – 4th semester equal for all
- As of 5th semester: 5 occupational field-related modules
- Transition to any master program possible

**Master**
- 3 semesters
- 9 master programs

**Time**
- 20 weeks internship
- 1 project work (6 weeks)
- Bachelor’s Thesis (10 weeks)
- Master’s Thesis (22 weeks)
Structure of the Business Administration and Engineering in the field Mechanical Engineering Program at RWTH Aachen University

Bachelor
- 7 semesters
- 1 bachelor program
- 1st – 4th semester equal for all
- As of 5th semester: 5 occupational field-related modules

20 weeks internship

Bachelor’s Thesis (10 weeks)

Master
- 3 semesters
- 1 master program
- 6 fields of specialization

Master’s Thesis (22 weeks)

Start of Studies

Time

Bachelor's Thesis

Bachelor

Master
Structure of the Computational Engineering Science Program at RWTH Aachen University

Bachelor
- 7 semesters
- 1 bachelor program

12 weeks internship

Bachelor's Thesis
(10 weeks)

Master
- 3 semesters
- 1 master program
- 3 fields of specialization

Master's Thesis
(22 weeks)

Start of Studies

Time
### Structure of Modules of the Bachelor Program Mechanical Engineering

<table>
<thead>
<tr>
<th>Modules</th>
<th>Share (in %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Principles of Engineering</td>
<td>40 %</td>
</tr>
<tr>
<td>Basic Principles of Mathematics and Natural Sciences</td>
<td>20 %</td>
</tr>
<tr>
<td>Basic Principles of System Sciences</td>
<td>15 %</td>
</tr>
<tr>
<td>Basic Principles of Social Sciences</td>
<td>7 %</td>
</tr>
<tr>
<td>Occupational Field-Related Modules</td>
<td>18 %</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100 %</strong></td>
</tr>
</tbody>
</table>
### Students by Faculty

#### Fac. 1: Faculty of Mathematics, Computer Science and Natural Sciences
- All Students in WS 16/17: 8,829
- First Subject-Related Semester: 2,188

#### Fac. 2: Faculty of Architecture
- All Students in WS 16/17: 1,571
- First Subject-Related Semester: 444

#### Fac. 3: Faculty of Civil Engineering
- All Students in WS 16/17: 3,982
- First Subject-Related Semester: 950

#### Fac. 4: Faculty of Mechanical Engineering
- All Students in WS 16/17: 12,573
- First Subject-Related Semester: 2,884

#### Fac. 5: Faculty of Georesources and Materials Engineering
- All Students in WS 16/17: 4,403
- First Subject-Related Semester: 1,120

#### Fac. 6: Faculty of Electrical Engineering and Information Technology
- All Students in WS 16/17: 4,634
- First Subject-Related Semester: 1,307

#### Fac. 7: Faculty of Arts and Humanities
- All Students in WS 16/17: 3,762
- First Subject-Related Semester: 1,026

#### Fac. 8: Faculty of Business Administration and Economics
- All Students in WS 16/17: 1,694
- First Subject-Related Semester: 409

#### Fac. 10: Faculty of Medicine
- All Students in WS 16/17: 3,069
- First Subject-Related Semester: 490

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29 of 57 Presentation of the Faculty of Mechanical Engineering | April 2018
Enrollment Development
Faculty of Mechanical Engineering

Source: Dezernat 6
Structure and Funding
RWTH Aachen University Figures (2016)

RWTH Aachen University offers 154 study degree programs.

- **Personnel:**
  - 540 Professorships
  - 9,264 Staff

- **Students:**
  - 44,517 Students total

- **Research Networks:**
  - 14 Collaborative Research Centers
  - 15 Affiliated Institutes, 1 Leibniz Institute
  - 5 Fraunhofer Institutes
  - 29 Research Training Programs
  - 1 Graduate School
  - 2 Cluster of Excellence
  - 1 Future Concept

- **Total Revenue:** € 900,0M
  - Third-party funds € 325,0M

Source: Department 6
Faculty of Mechanical Engineering Figures (2016)

Faculty of Mechanical Engineering offers 31 degree programs.

- **Personnel:**
  - 66 Professorships
  - 1,340 Research assistants
  - 641 Non-academic staff
  - 1,086 Student and scientific assistants

- **Graduates and academic degrees:**
  - 2,170 Alumni
  - 227 Doctorates

- **Students:**
  - 12,573 Students total
  - 2,260 New enrollees (WS 17/18)

- **Total Revenue 2016:** € 316M
  - Budgetary funds: € 100M
  - Third-party funds: € 124M
  - Third-party funds affiliated institutes and FhG: € 92M

Source: Department 6
Funding of the Faculty of Mechanical Engineering (2016)

316 million. €

124 million. € \(\{\) Third-party funds

100 million. € \(\{\) Budgetary funds

92 million. € \(\{\) Third-party funds affiliated institutes and FhG

Source: Department 6
Third-party Funds of RWTH Faculties

![Bar chart showing third-party funds across different faculties.]

- **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

*Graduate Schools, Clusters of Excellence, Institutional Strategy and Collaborative Research Centres*
## Assets Planning

<table>
<thead>
<tr>
<th>Basic Assets</th>
<th>Teaching Load</th>
<th>Research Load</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>W3 (C4):</strong></td>
<td>Lectures, tutorials, exams etc., 50% of study and final theses</td>
<td>Doctorates, publications and third-party funds, 50% of study and final theses</td>
</tr>
<tr>
<td>3 research assistants</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>W2 (C3):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 research assistant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Faculty job pool**

Long-term control of teaching load
Quota: ± 20% of the faculty average

**Total:**

<table>
<thead>
<tr>
<th>Teaching load</th>
<th>Research load</th>
</tr>
</thead>
<tbody>
<tr>
<td>ca. 70%</td>
<td>ca. 30%</td>
</tr>
</tbody>
</table>
Excellence Initiative and Interdisciplinary Research Partnerships
# Excellence Initiative at the RWTH Aachen University

## The three funding lines

<table>
<thead>
<tr>
<th>Graduate School</th>
<th>Aachen Institute of Advanced Study in Computational Engineering Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cluster of Excellence</td>
<td>Integrative Production Technology for High-Wage Countries</td>
</tr>
<tr>
<td></td>
<td>Tailor-made Fuels from Biomass (TMFB)</td>
</tr>
</tbody>
</table>

| Institutional Strategy II | RWTH 2020: Meeting Global Challenges – The Integrated Interdisciplinary University of Technology |
### Institutional Strategy (2012 – 2017)

<table>
<thead>
<tr>
<th>Internationally Recognised Scientific Profile</th>
<th>JARA</th>
<th>Corporate Governance and Structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strengthening the Natural Sciences</td>
<td>Fostering Interdisciplinary Research</td>
<td>Place to Be</td>
</tr>
<tr>
<td>Science Faculty Seed Funds</td>
<td>Exploratory Research Space</td>
<td>Diversity Fund</td>
</tr>
<tr>
<td>Undergraduate Research Funds</td>
<td>Project House HumTec</td>
<td>Re-entry Positions</td>
</tr>
<tr>
<td>RWTH-Distinguished Professorships</td>
<td>Project House IMF</td>
<td>RWTH Start up</td>
</tr>
<tr>
<td></td>
<td>Project House CMT</td>
<td>RWTH Lecturer</td>
</tr>
<tr>
<td></td>
<td>I³ Technology for Medicine</td>
<td>RWTH Fellow</td>
</tr>
<tr>
<td></td>
<td>JARA-Professorships</td>
<td>Recruitment Strategy</td>
</tr>
<tr>
<td></td>
<td>JARA-Institutes</td>
<td>SimLabs</td>
</tr>
<tr>
<td></td>
<td>Sections BRAIN, ENERGY, FAME, FIT, HPC, SOFT</td>
<td>New Sections</td>
</tr>
<tr>
<td></td>
<td>JARA-Institutes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JARA-Institutes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>New Sections</td>
<td></td>
</tr>
</tbody>
</table>

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**Profile Areas**
- Sections BRAIN, ENERGY, FAME, FIT, HPC, SOFT
- JARA-Institutes
- New Sections

**Corporate Governance and Structures**
- Diversity Fund
- Re-entry Positions
- RWTH Start up
- RWTH Lecturer
- RWTH Fellow
- Recruitment Strategy
- Child Care
Excellence Initiative  
Participation of the Faculty of Mechanical Engineering

First and second round of application  
Applications approved by DFG and Science Council under the leadership of the Faculty of Mechanical Engineering

• Graduate Schools for promoting young academics  
  First line of funding  
  – Aachen Institute for Advanced Study in Computational Engineering Science (AICES)  
    Spokesperson: Univ.-Prof. Marek Behr, Ph.D.

• Excellence Cluster for promoting cutting-edge research  
  Second line of funding  
  – Integrative Production Technology for High-Wage Countries  
    Coordinator: Univ.-Prof. Dr.-Ing. Christian Brecher  
  – Tailor-Made Fuels from Biomass  
    Coordinator: Univ.-Prof. Dr.-Ing. Stefan Pischinger
Excellence Initiative  
Participation of the Faculty of Mechanical Engineering

Third round of application  
Activities of the Faculty of Mechanical Engineering within the framework of the Future Concept II RWTH 2020 – Meeting Global Challenges

- Measure 1 - Internationally Recognized Scientific Profile
- Measure 2 - JARA: Focusing Competences – Shaping the Future
- Measure 3 - Place to Be
- Measure 4 - Corporate Governance and Structures
Enhancing Multi-Disciplinary Collaboration

- **CompSE** Computational Science & Engineering
  - Spokesperson: Univ.-Prof. Dr.-Ing. Wolfgang Schröder
- **ECPE** Energy, Chemical & Process Engineering
  - Spokesperson: Univ.-Prof. Dr.-Ing. Stefan Pischinger
- **ICT** Information & Communication Technology
  - Spokesperson: Univ.-Prof. Dr.-Ing. Stefan Kowalewski
- **MatSE** Material Science & Engineering
  - Spokesperson: Univ.-Prof. Dr. rer. nat. J. Mayer
- **MedST** Medical Science & Technology
  - Spokesperson: Univ.-Prof. Dr. med. Rolf Rossaint
- **MSE** Molecular Science & Engineering
  - Spokesperson: Univ.-Prof. Dr. rer. nat. W. Leitner
- **MTE** Mobility & Transport Engineering
  - Spokesperson: Univ.-Prof. Dr.-Ing. Lutz Eckstein
- **ProdE** Production Engineering
  - Spokesperson: Univ.-Prof. h.c. Dr.-Ing. Fritz Klocke
I³ - Interdisciplinary Integrated Institutes

Development and continuation of established interdisciplinary fields of research with a particular strategic meaning

• I - Cubes recognised as such by RWTH:
  – CWD - Center for Wind Power Drives
  – TM - Technology in Medicine

• Other I³ - Cubes identified by Faculty:
  – FDC – Fuel Design Center
  – HIA - Helmholtz-Institute for Biomedical Engineering of the RWTH Aachen
  – iCBT - Center for Human Centered Building Technology
  – MS - Modeling and Simulation
  – NGP² - Center for Next Generation Processes and Products
  – ZMB - Center for Metallic Design
Project Houses

Intensively working on current and particularly relevant research fields in the context of global challenges

• Project Houses recognised as such by RWTH:
  – ACA - Center for Automotive Catalytic Systems
  – CMT - Center for Molecular Transformations
  – P2F - Power to Fuel

• Project Houses identified by Faculty:
  – CERM - Center for European Research on Mobility
  – CMM - Center for Mobile Machinery
  – CMP - Center for Mobile Propulsion
  – TESA – Technical-Based Energy System Analysis
  – ZEP – Center for Electric Car Production
Collaborative Research Centers and Transregio SFBs

• **SFB 1120**  Precision manufacturing by controlling melt dynamics and solidification in production
  – Spokesperson: Univ.-Prof. Dr. rer. nat. Reinhart Poprawe

• **TRR 129**  Oxyflame - Development of Methods and Models to Describe Solid Fuel Reactions within an Oxy-Fuel Atmosphere
  – Spokesperson: Univ.-Prof. Dr.-Ing. Reinhold Kneer

Collaborative Research Centers and Transregio SFBs with Participation from RWTH Researchers

• **TRR 136**  Function oriented manufacturing based on characteristic process signatures
  – Coordinating at RWTH: Univ.-Prof. h.c. Dr.-Ing. Fritz Klocke
  – Spokesperson University: University of Bremen

• **TRR 96**  Thermo-Energetic Design of Machine Tools
  – Coordinating at RWTH: Univ.-Prof. Dr.-Ing. Christian Brecher
  – Spokesperson University: University of Dresden

• **TRR 40**  Technological Foundations for the Design of Thermally and Mechanically Highly Loaded Components of Future Space Transportation Systems
  – Coordinating at RWTH: Univ.-Prof. Dr.-Ing. Wolfgang Schröder
  – Spokesperson University: University of Munich
DFG - Research Units

• **FOR 1779**  Active Drag Reduction by Transversal Surface Waves  
  – Spokesperson: Univ.-Prof. Dr.-Ing. Wolfgang Schröder

• **FOR 1087**  Damping Effects in Machine Tools  
  – Spokesperson: Univ.-Prof. Dr.-Ing. Christian Brecher

DFG – Research Units with RWTH Involvement

• **FOR 2089**  Durable Pavement Constructions for Future Traffic Loads Coupled System Pavement-Tyre-Vehicle  
  – RWTH Participants: Univ.-Prof. Dr.-Ing. Lutz Eckstein

• **FOR 1585**  Multi-Port Bone Surgery Using Otobasis as an Example (MUKNO)  
  – RWTH Participants: Univ.-Prof. Dr.-Ing. Robert Schmitt
DFG - Research Training Groups

- **GRK 1856** Integrated Energy Supply Modules for On-Road Electromobility - mobilEM
  - Spokesperson: Univ.-Prof. Stefan Pischinger

- **GRK 1491** Ramp-Up Management
  - Spokesperson: Univ.-Prof. Dr.-Ing. Robert Schmitt
Other Programs

Marie-Curie-Initial Training Networks (ITN)

- **INTERAQCT** International Network for the Training of Early stage Researchers on Advanced Quality control by Computed Tomography
  - Coordinator: Univ.-Prof. Dr.-Ing. Robert Schmitt
- **Super-W** Sustainable Product, Energy and Resource Recovery from Wastewater
  - Coordinator: Univ.-Prof. Dr.-Ing. Matthias Wessling
- **ModLife** Advancing Modelling for Process-Product Innovation, Optimization, Monitoring and Control in Life Science Industries
  - Coordinator: Univ.-Prof. Alexander Mitsos, Ph. D.

**GRS** German Research School for Simulation Sciences

- Spokesperson: Univ.-Prof. Marek Behr, Ph. D.
Other Programs

**EU Projekte coordinated by RWTH Aachen**

- **Bots2ReC**  
  Robots to Re-Construction  
  - Coordinator: Univ.-Prof. Dr.-Ing. h. c. Burkhard Corves

**FET Flagships and EIT KICs with RWTH Involvement**

- **Climate-KIC**  
  Knowledge and Innovation Community  
  - RWTH Associated Partner: Univ.-Prof. Dr.-Ing. André Bardow

**ERC Advanced Grant**

- **ConFluReM**  
  Controlling Fluid Resistances at Membranes  
  - Grantholder: Univ.-Prof. Dr.-Ing. Matthias Wessling

- **MILESTONE**  
  Multi-Scale Description of Non-Universal Behavior in Turbulent Combustion  
  - Grantholder: Univ.-Prof. Dr.-Ing. Heinz Pitsch
Appropriation of Tuition Fee Substitutes
# Tuition Fee Substitutes
## Appropriation Procedures Basics

<table>
<thead>
<tr>
<th>Basics for the appropriation of tuition fee substitutes:</th>
<th>„White Paper on the utilization of tuition fee substitutes: at the Faculty of Mechanical Engineering of RWTH Aachen University“</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key principles of the white paper:</td>
<td>„Improvement of the quality of education as a primary goal for the utilization of funds from tuition fee substitutes“</td>
</tr>
<tr>
<td>Target to be achieved by the following measures:</td>
<td>Measures for a significant increase of the success rate and support of the core subjects of mechanical engineering“</td>
</tr>
<tr>
<td></td>
<td>„Measures to promote excellent students“</td>
</tr>
</tbody>
</table>

(Faculty Council Decision on Dec. 12th, 2006)
Tuition Fee Substitutes
Appropriation Control Loop

Revenue from tuition fee substitute → Subcommittee tuition fee substitutes → Budget Committee → Faculty Council → Institutes

Dean's Office → Other measures, if necessary

Study Advisory Council

Evaluation Committee
Faculty International
Faculty International
Study Abroad

- **ERASMUS**
  - More than 70 European partnerships on faculty and institute level
- **USA - Programmes**
  - Institute contacts with US universities
- **Korea University and Hongik University**
  - Study abroad South Korea
- **Zhejiang University**
  - Study Stay at the prestigious Zhejiang University in the People’s Republic of China
- **Northwestern Polytechnical University (NPU)**
  - Study Stay at the prestigious Zhejiang University in the People’s Republic of China
- **University of Michigan - Shanghai Jiao Tong University Joint Institute**
  - Study Stay in Shanghai
- **Joy Programm**
  - Cooperation with the Yokohama National University (YNU) in Japan
- **ITESM**
  - Cooperation with Instituto Tecnológico y de Estudios Superiores de Monterrey in Mexico
- **Tsinghua (Double Degree)**
  - Joint Degree with Tsinghua University in Beijing
- **T.I.M.E. Frankreich**
  - Double Diploma Program with five Grandes Écoles in France
- **T.I.M.E. Japan**
  - Double Diploma Program with one of Japan’s leading technical universities
- **T.I.M.E. Valencia**
  - Double Diploma Program with one of Spain’s leading technical universities Universidad Politécnica de Valencia (UPV)
- **Ecole Mines de Douai (Double Degree)**
  - Study Stay in France
- **Free Mover**
  - Support for self-organized exchanges
Faculty International Mobility

• Recommended mobility time slots (B.Sc.) from 5th semester on

1 2 3 4 5

• Recommended mobility time slot (M.Sc.): 2nd/3rd semester

1 2
Faculty International Study Abroad Counseling

- Exchange Programs
- Application Process
- Accreditation Procedure

Faculty of Mechanical Engineering

"Outgoings"

Cultivation and development of contacts

Study Abroad Counseling

"Incomings"

Foreign University

- Mentoring
- Exam Registration
- Course Selection
International students at the RWTH Aachen in WS 2016/17 sorted by faculties

Source: Department 6