

# RWTH Aachen University

## Engineering Winter Schools 2018



Studying at one of the best German Universities in Engineering!



New Winter and  
Summer Schools



Welcome



Why choose us



Contact

# Our new Winter Schools 2018

Join us during your winter break.



## A quick overview

### 2-week programme

#### Mechatronic and Robotic Systems Engineering (26 February - 09 March)

The Winter School will introduce to the fundamentals and challenges related to the engineering of mechatronic and robotic systems. Mechatronics and Robotics are dynamic, multidisciplinary subjects combining three engineering fields: mechanical, electrical and software engineering. This complex intermeshing of disciplines requires profound technical expertise.



### 3-week programme



#### Smart Factories (05 March - 23 March)

This Winter School revolves around "Smart Factory". It will focus on the merging of the virtual and the physical worlds through cyber-physical systems. These systems are part of the Industry 4.0 movement of automation and data exchange in manufacturing technologies. In this context, digitization, automation, human-machine interaction as well as better networked production systems play an important role.

## Key Facts

Duration	Two Weeks	Three Weeks	Deadline
Course Fees* Early Bird	€1.620	€2.520	<b>1st of November, 2017</b>
Course Fees* Regular	€1.800	€2.800	<b>1st of December, 2017</b>
Workload	60 Teaching Units	90 Teaching Units	
Qualification	Certificate containing list of modules, workload, and final grade**		
Language	English		

\*includes lectures and laboratory courses, course material, excursions and social events, accommodation, breakfast and lunch on weekdays, meals during social events, and a local public transport ticket for the respective time.

\*\*ECTS Credits can be accredited at your home university, depending on the workload.

# Summer programmes 2018

Different courses – One summer!



A quick overview

2-week programmes

Construct (June, 2018)

Smart Electrical Power Systems (July, 2018)

2-week programmes or **combined** 4-week programme

Six Sigma Quality Management (June to July, 2018)

Supply Chain Management & Logistics (July, 2018)

3-week programmes

Sustainable Energy Technology (June, 2018)

Mechatronic Systems Engineering and Product Innovation (June to July, 2018)

Automation and Simulation (July, 2018)

Production Technology meets Industry 4.0 (August, 2018)

Robotics for Future Industrial Applications (August 2018)

Human Machine Interaction (August, 2018)

4-week programme

Automotive and Mobility Studies (June 2018)





# About the RWTH International Academy

A short summary of what we have to offer



Welcome

All Winter and Summer School courses offered by RWTH International Academy are uniquely designed for international undergraduate students who want to gain insight into one of Germany's Universities of Excellence. RWTH International Academy works closely together with various Institutes of RWTH Aachen University, the International Office and the Language Center to offer international students a perfect mix of technical and practical knowledge as well as cultural experiences.

<b>Excellent Science and Research</b>	Our Winter and Summer School courses in Mechanical Engineering and Management offer international students the opportunity to take part in excellent science and research at RWTH Aachen University. The university is highly acclaimed internationally for its development of innovative answers to the most pressing global challenges. Its success in Germany's Excellence Initiative reflects its outstanding reputation for research and education in the fields of science, technology, and engineering.
<b>German Language and Culture</b>	Through the university's "BeBuddy" programme, international students have the chance to immerse themselves in the vibrant student community at RWTH Aachen University. They learn more about academic and cultural practices in Germany with the support of their German "Buddies" who are typically students enrolled at RWTH Aachen University. Some of our Summer School Courses also include a German language course.
<b>Social Events</b>	Every year, the RWTH International Academy offers different cultural events in Aachen and surroundings (the three-border region where the frontiers of Germany, Belgium and the Netherlands meet); visits to UNESCO World Heritage sites and excursions to Cologne, Düsseldorf or Bonn; on-site company visits at RWTH's industrial partners; intercultural training; cooking and dancing nights, sport events, BBQs and many other activities.





## Experience Excellence in Science and Engineering at RWTH Aachen University

RWTH Aachen University is the largest university of technology in Germany and the most important economic factor of the city. Every year, a large number of international students and scientists come to the university to benefit from its high-quality study programmes and excellent facilities, from which both are internationally recognised. RWTH Aachen University has an academic staff of 5230 people, including 538 full-time professors. There are approximately 43,700 students currently enrolled at the university, of whom more than 6500 are international students from over 120 different countries.

The Rheinisch-Westfälische Technische Hochschule Aachen (RWTH) stands as a worldwide centre for cutting-edge research and academic training that relates to real-world conditions, particularly in engineering and natural sciences. For such reasons, the RWTH has occupied a leading position in the German Collegiate Ranking System for years: for its leading reputation with prominent enterprises, its academic reputation and its high research success with an emphasis on real-life applications.



## Experience Internationality in the Heart of Europe

Only a few kilometres from the city centre, one can find the “Border Triangle” where the frontiers of Belgium, Netherlands and Germany meet. The attraction of living in this area includes a colourful mix of languages and people as well as short travel distances to cities such as Amsterdam, Brussels, Cologne or even Paris. On the city’s doorsteps, the hilly Eifel landscape with its rivers, lakes and forests offers a picturesque countryside.



## Live where History meets Technology

Its historic centre around the distinctive cathedral, which is an UNESCO world heritage site, is characterized by the student lifestyle. In the old quarters of town and their pubs, restaurants and shops, one can literally touch European history. The great number of students makes student life in Aachen vibrant and unique. At the famous Pontstraße (“Pont Street”) in the main campus area, one finds a “gastronomy strip” with restaurants and cafés that is favoured by students when they go out or get a bite to eat at lunchtime. Whether one prefers Thai cuisine, Sushi or Turkish food, the choice of restaurants is numerous. Most places offer plenty of food for little money meeting the needs of students.



# Why choose us

## Some important facts and figures



### RWTH Aachen University

RWTH Aachen University is one of Germany's Universities of Excellence. It is a place where the future of our industrialized world is thought out. The university is proving to be a hotspot with increasing international recognition where innovative answers to global challenges are developed.

### Rankings and Accreditation – Striving for Excellence

RWTH Aachen University's success in Germany's Excellence Initiative reflects its outstanding reputation for research and education in science, technology, and engineering fields.

RWTH Aachen University secures top places in university rankings every year:

- In 2016, the university was particularly successful in the field of mechanical engineering, which was ranked place 12 worldwide and the best German university within this subject. (Source: QS World University Ranking by Subject)
- RWTH Aachen University is the university with the most allotted research funding in engineering. (Source: German Research Foundation (DFG))

The university receives funding for the implementation of its institutional strategy, RWTH 2020: Meeting Global Challenges, which was endorsed by the German Research Association (DFG) and the German Council of Science and Humanities. Funding was also approved for the University's three clusters of excellence and the AICES Graduate School. With its outstanding performance in the first round of the Excellence Initiative, RWTH Aachen University has confirmed its place among Germany's top institutions of higher education.

### Research Excellence

With 260 institutes in nine faculties, RWTH Aachen University is one of Europe's premier educational and research institution. There are currently 43,721 students enrolled in 152 courses of study. Education at RWTH Aachen is application oriented, resulting in its graduates becoming young professionals and leaders that are highly sought after in the economy.

RWTH Aachen University receives the most third party research funding in engineering out of all German universities. (Source: German Research Foundation (DFG))


### Student Testimonials from the recent years

“

RWTH International Academy Summer School is one of the best avenues to getting educated by the finest lecturers belonging to Germany's most prestigious learning institutes.

In addition, the school provides the perfect opportunity to explore Germany and its neighboring countries while studying.

”




Nantanee  
Thailand

Summer School 2016  
"Production Technology meets Industry 4.0"

“

The knowledge and skills I acquired at RWTH Aachen University and during the Summer School have greatly enhanced my social and academic life. Besides the enriched technical course, the excursions and social activities make the programme even more attractive and enjoyable. I believe this course is a perfect opportunity to extend your prospect of view for pursuing your education at RWTH Aachen University.

”



Omid  
Iran

Summer School 2016  
"Automotive and Mobility Studies"

# Any more questions?

If we have left anything out please do not hesitate to contact us.



## International Academy

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## RWTH International Academy

As the central, executive education institute of RWTH Aachen University, RWTH International Academy is able to call upon the expertise of the university's research institutes. Each of our executive education programmes is developed in conjunction with RWTH Aachen institutes. The institute nominates a scientific director and delivers the course in combination with lectures from science and industry as appropriate. Thus, RWTH International Academy is able to offer participants the opportunity to profit from the university's expertise in a practical manner.



## Contact Details

Winter and Summer School Team

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**INTERNATIONAL  
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**RWTHAACHEN  
UNIVERSITY**