Do you want to become an expert in the exciting field of robotics?
This M.Sc. program focuses on the optimal application of robots and the development and construction of new robotic systems. Creating intelligent robotic systems requires specialized skills from a broad range of scientific fields. Bridging gaps between engineering disciplines, this course of study offers you a unique learning environment and a multidisciplinary education, enabling you to develop innovative and intelligent robotic solutions and systems to meet today’s most pressing global challenges: industrial productivity, energy efficiency, environmental responsibility, and mobility services.

Study at a top university in the heart of Europe!
Aachen provides the perfect backdrop to the dynamic academic and cultural environment of RWTH Aachen University. The safe, historical and multicultural student city is located right at the “Border Triangle”, where the borders of Belgium, the Netherlands, and Germany meet. There are plenty of opportunities for you to practice your favorite sport, get involved in academic or social projects, and try out a fun activity in one of the many student clubs.

Follow in the footsteps of RWTH Aachen’s Department of Mechanism Theory and Dynamics of Machines!
This specialized M.Sc. program is led by the Department of Mechanism Theory and Dynamics of Machines at RWTH Aachen’s Faculty of Mechanical Engineering. Following an interdisciplinary approach, lectures and courses are also offered by departments from the Faculty of Electrical Engineering and Information Technology, the Faculty of Mathematics, Computer Science and Natural Sciences, as well as the School of Business and Economics.

Get great career perspectives!
As a graduate of this M.Sc. program, you will be qualified to…
• create and advance a wide range of robotic systems, such as industrial robots, mobile robots, assistance robotics, and intralogistics robotic systems
• develop, implement and program robotic systems for different levels of autonomy
• design industrial robots that are automated, programmable, and capable of moving in a dexterous workspace
• combine and apply technological skills of mechanics, electrical drives, sensor technology, and information processing to optimize systems of robots for different domains
• organize and monitor operation and manufacturing processes
• develop robotic systems for embedded production systems or autonomous warehouses.
## Program Structure*

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd Semester</th>
<th>4th Semester</th>
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<tbody>
<tr>
<td>Robotic Systems</td>
<td>Multibody Dynamics</td>
<td>Simulation of Robotic Systems, Sensors and Environment</td>
<td>Internship (Industrial Track) OR Research Project (Academic Track)</td>
</tr>
<tr>
<td>Advanced Robot Kinematics and Dynamics</td>
<td>Machine Learning</td>
<td>Elective Courses (see below)</td>
<td>Master's Thesis</td>
</tr>
<tr>
<td>Control Engineering</td>
<td>Robotic Sensor Systems</td>
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<tr>
<td>Electrical Drives</td>
<td>Elective Courses (see below)</td>
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<tr>
<td>Computer Vision I</td>
<td>German Course A2</td>
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<tr>
<td>Computer Science in Mechanical Engineering II</td>
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<tr>
<td>German Course A1</td>
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</table>

*the curriculum is tentative. Please note that the German Language Courses A1 and A2 are extracurricular.


## Key Facts
- Entirely English-taught
- 2-year program (4 semesters)
- 120 credit points
- Degree: Master of Science - M.Sc. RWTH (awarded by RWTH Aachen University)
- Tuition fee: EUR 4,500 per semester
- Start: Every year in October
- Application Deadline: March 1 every year

## Contact
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www.masters-in-engineering.com