M.Sc. Networked Production Engineering (NPE)

Graduates in specialized fields of employment are widely sought after in an increasingly networked world of work. Young professionals can obtain tailor-made qualifications and expertise in this highly interdisciplinary master’s program at RWTH Aachen University.

As a NPE graduate you will...

... establish the flexible, digital and networked production of the future
... provide quantitative analytical methods for process analysis
... design, direct, optimize, and monitor production processes
... develop and enhance serial production lines and assembly systems
... improve manufacturing performance and identify process bottlenecks
... develop innovative production machines and assembly systems for state-of-the-art manufacturing planning

Key Facts

<table>
<thead>
<tr>
<th>Language of Instruction</th>
<th>English</th>
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<tr>
<td>Duration</td>
<td>2 years</td>
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<tr>
<td>Credit Points</td>
<td>120</td>
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<tr>
<td>Degree</td>
<td>Master of Science (M.Sc.) awarded by RWTH Aachen University</td>
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<td>Tuition Fee</td>
<td>EUR 4,500 per semester</td>
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<td>Start</td>
<td>October 1 each year</td>
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<td>Application Deadline</td>
<td>March 1 each year</td>
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Smart Factory

• Embedded and model-based systems engineering
• Networking of cyber-physical systems
• Progressive automation of manufacturing processes
• Planning of flexible, networked factories

Additive Manufacturing

• Advanced materials
• Process chains for 3D printed components
• Agile production technologies
• Additive manufacturing in a digital, networked production environment

E-Mobility Production

• E-mobility component production
• Analysis of functions and value chains
• Electrical machine design with focus on production
• Development of sustainable energy storage systems
Welcome to RWTH Aachen University

At the WZL, we are proud to hold the academic leadership of the course Networked Production Engineering. We will build upon your existing qualifications and extend your knowledge in production engineering with a focus on smart factories, additive manufacturing, or electric mobility production. We aim to encourage our students to immerse themselves in learning how to spearhead technological transformation and thus live our university’s motto together with us: “Thinking the Future”!

Univ.-Prof. Dr.-Ing. Thomas Bergs, MBA
Academic Director M.Sc. NPE
Laboratory for Machine Tools and Production Engineering (WZL)