

# Project Semester - Made in Germany



Do you want to work on exciting projects in state-of-the-art laboratories?

Do you need a flexible solution for your semester abroad in terms of credits?

Are you about to graduate and wish to spend a semester abroad?

At **Aalen University of Applied Sciences**, you can spend a semester working on exciting projects. You decide how many credits you earn and which projects you would like to work on. You decide whether you wish to add lectures to your project semester or just work on one or more projects. Gain first-hand experience and spend an outstanding semester abroad at Aalen University.

The following independent project topics in the research laboratories and facilities of Aalen University of Applied Sciences are waiting for you:

Subject areas	Topics / Focus	ECTS
Computer Science / Data Analytics	<ul style="list-style-type: none"> <li>Machine &amp; Deep Learning for Image analysis</li> <li>Artificial Intelligence - Data quality</li> <li>Artificial Intelligence - Image enhancement</li> <li>Autonomous Robotics</li> </ul>	12 12 12 6 to 12
Engineering (or comparable)	<ul style="list-style-type: none"> <li>Laser material processing. Focus: Use of artificial intelligence methods</li> <li>Laser material processing. Focus: Additive Manufacturing</li> <li>Laser material processing. Focus: Surface functionalization and/or volume functionalization</li> </ul>	12 or more 12 or more 12 or more
Mechatronics, Computer Science	<ul style="list-style-type: none"> <li>Industrial Robotics: Several Applications &amp; Energy Consumption</li> <li>Machine Vision (Industrial Vision) Advanced Inspection Techniques and Use of AI</li> </ul>	6 6
Materials Science / Chemistry	<ul style="list-style-type: none"> <li>Magnetic materials</li> <li>Lithium-Ion Batteries</li> <li>Additive Manufacturing</li> <li>Microscopy</li> <li>Surface technology</li> </ul>	12 12 12 12 6
Mechanical Engineering	<ul style="list-style-type: none"> <li>Recycling Robotics</li> <li>Industry 4.0</li> <li>Human-Centered AI</li> <li>Materials Science</li> <li>Polymer Technology: Filaments from PCR scrap for 3D printing (FDM)</li> <li>Micropump for Medical Applications</li> </ul>	6 to 12 6 to 12 6 to 12 12 5 to 6 12 to 18
Physics	<ul style="list-style-type: none"> <li>Magnetism/Magnetometry</li> <li>FEM for Electromagnetism</li> </ul>	12 12
Physics, Optics	<ul style="list-style-type: none"> <li>Applied Photonics: ultra short pulse lasers</li> <li>Biophotonic</li> <li>Optics Technology</li> <li>Additive manufacturing</li> </ul>	Flexible, 6 to 24 Flexible, 6 to 24 Flexible, 6 to 24 Flexible, 6 to 24
Electronic Engineering	<ul style="list-style-type: none"> <li>Power Electronics and Electrical Drive Technology</li> <li>A multitude of research topics in Embedded Systems Engineering</li> </ul>	flexible, starts at 5
Optical Engineering	<ul style="list-style-type: none"> <li>Biophotonics &amp; Bioimaging</li> </ul>	12
Optometry	<ul style="list-style-type: none"> <li>Topic to be defined</li> </ul>	Depending on the project scope

Find more info and updates on the website:  
[www.hs-aalen.de/en/pages/project-semester](http://www.hs-aalen.de/en/pages/project-semester)

Check also our International Student Network Platform

