

ESSLINGEN

WHAT TO EXPECT



- | Close collaboration with industry
- | Located close to global leaders in the mobility industry
- | State-of-the-art, superbly equipped laboratories



Student life: In addition to the degree programme Esslingen University offers a wide range of opportunities:

- | Rennstall – Formula Student Team
- | Technical Flying Club (FTAG)
- | University Sports Club
- | University Orchestra and University Choir



HOW TO APPLY

Esslingen University of Applied Sciences

Flandernstrasse 101
73732 Esslingen
GERMANY
Phone +49(0)711 397-44 74
mengasm@hs-esslingen.de

Admission Requirements

- | Vehicle Systems Major: Bachelor of Automotive Engineering, Mechanical Engineering, Mechatronics or equivalent
- | Automotive IT Major: Bachelor of Information Technology, Electrical Engineering, Vehicle Systems Engineering or equivalent
- | APS certificate required from bachelor graduates of China, India, Vietnam, etc.
- | English language test

Application deadline

31 March

APPLY NOW!

Design und Satz: www.weiser-design.de Stand: Februar 2024

AUTOMOTIVE SYSTEMS



WWW.HS-ESSLINGEN.DE



Master of Engineering

M

BUILD YOUR CAREER IN AUTOMOTIVE SYSTEMS

Automotive Systems (ASM) students choose one of two majors:

- | Vehicle Systems
- | Automotive IT

Vehicle Systems graduates aim to work in the field of development and testing of innovative functions to improve ride & handling, stability, driveability and fuel economy.

Automotive IT graduates aim to work in the field of development, market launch and supervision of innovative car communication systems and safe software. They can develop bus- and communication systems and safety concepts for vehicle systems.

MASTER OF ENGINEERING

- | Build your career in automotive systems
- | Learn to work in an interdisciplinary and intercultural environment
- | Study in English – live in Germany



STUDY IN THE HEART OF THE EUROPEAN AUTOMOTIVE INDUSTRY



Students benefit greatly from the close links to the technological and industrial leaders situated in the area, such as **Bosch, Daimler, Audi, Festo, and Porsche**. These are especially important when it comes to master's thesis placement.

Learn to work in an interdisciplinary and intercultural environment

Automotive Systems students have the possibility to work on projects that have been commissioned by the industry. One example is the development of battery management systems using modern cell simulator and microcontroller technology.



Esslingen is an ideal place to live and study.

MASTER OF ENGINEERING AUTOMOTIVE SYSTEMS

Master's Thesis

3rd
SEM

Soft Skills for Engineers

Major in Vehicle Systems
Handling, Suspension Modeling,
Propulsion Systems, E-mobility

Major in Automotive IT
Automotive Communications
(Communication Systems, Vehicle to X),
Usability and Dependability (Man-
Machine-Interactions (MMI), Safety and
Security)

2nd
SEM

Autonomous Driving

Team Project

Mathematical Methods in Engineering:
Numerical Analysis, Numerical
Differential Equations, Descriptive and
Interferential Statistics

System Design:
Automotive Systems and Software
Architectures, Automotive Systems
Development Process and System Test

Simulation and Control:
Basic Control, Advanced Control, Lab,
Modelling and Simulation

1st
SEM

IT Fundamentals, Vehicle System
Fundamentals

ACCOMPANYING COURSES

- | In September: orientation week, German language course, culture programme
- | German Language Courses: improve employability (master's thesis)
- | Excursions, Cultural and Social Events: explore the German mentality and culture