

COMBINING STUDY AND RESEARCH IS NOT POSSIBLE.

**YES.**

Join Fraunhofer IVI in Dresden.

YOU WANT TO SHAPE THE MOBILITY OF THE FUTURE TOGETHER WITH US  
AND YOU ENJOY PROGRAMMING? WE AT FRAUNHOFER IVI OFFER YOU THE  
OPPORTUNITY OF WRITING A

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## MASTER THESIS ON **AUTONOMOUS SYSTEMS AND ARTIFICIAL INTELLIGENCE** IN INGOLSTADT

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At the **Fraunhofer Application Center »Connected Mobility and Infrastructure«** in Ingolstadt, concepts and technologies are being developed to make the mobility of the future safer, more efficient and more resource-friendly. Questions of automated and cooperative driving are dealt with as well as topics related to autonomous flying. The young and dynamic team has broad expertise in the fields of sensor technology, communication and Artificial Intelligence and uses synergies with local industry, the Technical University and the city of Ingolstadt.

For our current research projects we are looking for motivated students who would like to write their thesis in the field of Autonomous Systems and Artificial Intelligence. In the context of the Master thesis you can contribute your competences to various projects and support us in the following areas:

- Urban Air Mobility (autonomous flying and autopilot)
- autonomous mobility
- sensor data fusion
- Artificial Intelligence and simulation

### **What you bring to the table**

- student in Computer or Data Science, Mathematics, Physics, Electrical and Information Engineering, or a related field
- strong background in the areas of Machine Learning, Deep Learning, and/or Computer Vision
- excellent academic performance
- very good programming skills in Python and/or C++
- experience with frameworks such as ROS and PyTorch/TensorFlow
- structured, self-dependent and result-oriented way of working
- ambition, creativity and commitment in the daily work routine
- high motivation and ability to work in a team

### **What you can expect**

- challenging tasks in cutting-edge and application-relevant subject areas
- interdisciplinary research on promising technologies
- professional supervision
- adequate remuneration
- a modern research infrastructure
- flexible working hours
- a young, dynamic team in an open and friendly working environment

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas.

The Fraunhofer Institute for Transportation and Infrastructure Systems IVI in Dresden employs more than 150 research fellows in five departments and collaborates closely with the TU Dresden, the TU Bergakademie Freiberg and the Technische Hochschule Ingolstadt.

**Please register at the career portal of the Fraunhofer-Gesellschaft and send us your meaningful application:**

[Career Portal](#)

**If you have any questions, please contact:**

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