



Monday, January 27, 2025

Tuesday, January 28, 2025

*please note that there might still be slight variations in schedule even during the week*

8:30 am – 9:00 am

## Registration

*Foyer*

**International Department of the KIT**  
Schlossplatz 19  
76131 Karlsruhe

All sessions will take place in the  
**Marie Skłodowska Curie Room**  
(Room 201)  
on the second floor of the  
International Department of the KIT

9:00 – 9:45am

## Welcome Session

*Parents Welcome*

10:00 am – 1:30 pm

## Lecture and Workshop

*Sustainable Business Process Management  
and Process Mining*

**Bring your laptops!**

*meet in ID Courtyard at 12:00 to walk over together*

1:30 - 3 pm

## Lunch at KIT Mensa

Adenauerring 7  
76131 Karlsruhe

3:00 – 5:30 pm

## KIT Campus and City Rally

*meet in the Foyer*  
Karlsruhe City and KIT Campus locations

6:00 – 7:30 pm

*meet in the Foyer at 6:00*

## Welcome Dinner

**Charles Oxford**

Waldstr. 30

**Parents Welcome to join (at their own expense)  
at „Grown Up Table“**

*meet in the Foyer*

*meet in ID Foyer at 9:30 am*

## Excursions

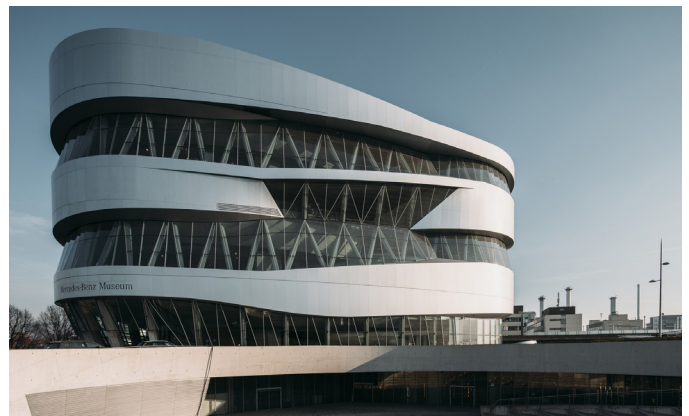
take private coach to

## Mercedes-Benz Museum

Mercedesstraße 100  
70372 Stuttgart

*please note that all backpacks  
must be locked away during the visit*

Visit: 10:30 am - 1:00 pm



*A packed lunch will be provided for you to take on the trip.  
There also is a museum snack shop and caffè at the  
Mercedes-Benz Museum, but it is quite costly.  
You might want to bring along some extra water and snacks.*

*meet punctually at 1:00pm in front of Mercedes-Benz Museum*

take private coach to

## Wörth Daimler Trucks

Mercedesstraße 1  
76744 Wörth am Rhein

Visit: 2:45 pm - 4:15 pm

*return to Karlsruhe is expected around 5 pm*



Wednesday, January 29, 2025

9:45 am  
Announcement of Winners of  
Campus and City Rally

10:00 a.m – 1:00 pm

### Lecture and Workshop

*Electromotor and Generator:  
Hands-On Engineering Workshop*

Electromagnetic Induction  
Magnetic Fields and Force  
Torque and Mechanical Power  
AC and DC Electricity  
Circuit Design and Load Matching  
Efficiency and Energy Loss  
Material Science  
Control Systems  
Applications of Electromotors and Generators

meet in Foyer at 1:00 to walk over together

1:15 – 2:30 pm

### Lunch at KIT Mensa

Adenauerring 7  
76131 Karlsruhe



2:45 – 5:45 pm

### Lecture and Workshop

*Crank Hands-On Cell Phone Charger  
Challenge*

Energy Conversion  
Electromagnetic Induction  
Mechanical Advantage  
Circuit Design  
Power and Efficiency  
Human Factors Engineering  
Energy Storage  
Sustainability and Renewable Energy  
Material Science

Thursday, January 30, 2025

9:00 am

Presentation of the B.Sc. in Mechanical Engineering  
(International) and the CBS College Program  
*Parents Welcome*

meet in the Foyer at 10:15 am

### Excursion to the ZKM Zentrum für Kunst und Medien

The Zentrum für Kunst und Medien in Karlsruhe showcases the innovative use of technology in art and provides insight into the societal impacts of technology.



go directly from ZKM to KIT for

### Lunch at KIT Mensa

Adenauerring 7  
76131 Karlsruhe

2:30 pm – 4:00 pm

**Lecture**  
*Principles of Mechanical Engineering*

4:15 pm – 5:45 pm

### Workshop

*Design Processes*

This workshop will talk about things like the steps engineers take to design and create mechanical systems, how to solve real-world problems with creative thinking, and the basics of tools like gears, levers, and CAD software. You'll also learn how to prototype ideas, test designs, and explore how engineering makes a difference in sustainability and everyday life.



Friday, January 31, 2025

Notes

9:00 am – 12:45 pm

### Workshop

*Sustainable Solutions:  
Stirling Engine Build Session*

*This workshop will be about building and understanding a Stirling engine, a fascinating heat engine that converts temperature differences into mechanical motion. You'll learn about the principles of thermodynamics, experiment with heat and energy transfer, and assemble your own working model. It's a hands-on session that combines science, engineering, and creativity to explore how heat can power motion*

12:45 pm - 1:00 pm Clean up  
**all students are required to help clean up**

*meet in ID Courtyard at 1:00 pm to walk over together*

1:00 pm – 2:30 pm

### Lunch at KIT Mensa

Adenauerring 7  
76131 Karlsruhe

2:00 pm – 3:30 pm

### Lecture

*Computer Aided Engineering*

3:45 pm – 5:00 pm

### Final Discussion Round

*Mechanical Engineering, Sustainability, and the Future!*

