

Academic Content and Program Features

This 10 week program combines theoretical classes, hands-on experiments and visits to core German automotive companies which may provide an opportunity to begin internships after the summer program. Students start the program by participating in a four-week intensive language course that includes an introduction to the German culture and excursions throughout Germany. The technical content begins with one week of intensive lecture program about Automotive Engineering Technologies. At the end of the lecture program, students decide on an individual four-week research project relevant to cutting-edge technologies related to Automotive Engineering. Research activities are enhanced by pairing the students with local graduate students. Besides that, an additional week of structured visits to leading German industries provides further insights into Automotive Engineering practices.

Program Schedule

Week	(begin: June 2011)
1	German Language and Culture Course
2	
3	
4	
5	Introductory lectures on Automotive Engineering Technologies
6	Visits to German automotive companies
7	Hands on research project
8	
9	
10	Final Workshop (2 days)
11-16	Potential industry internship (6 weeks)
17-22	Potential industry internship (3 months)

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Registration Deadline in Germany

Registration is possible until **March 01, 2011** via the program webpage or until the maximum number of participants (20) has been reached. Please email your application letter (CV and transcript) to:

www.AutomotiveSummer.de

Contact

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International Summer Program for Automotive Engineering Technologies



Rhein-Ruhr Region, Germany

University of Duisburg-Essen

June 6 – August 12, 2011

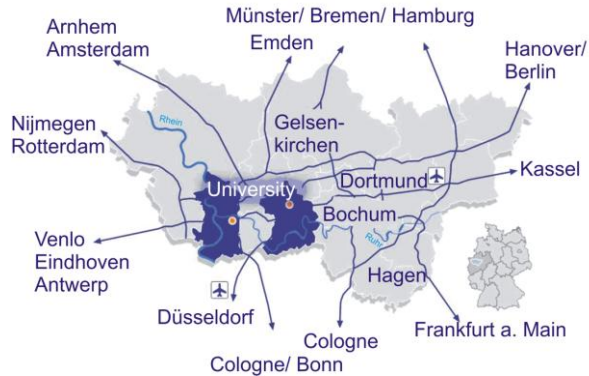


DAAD Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

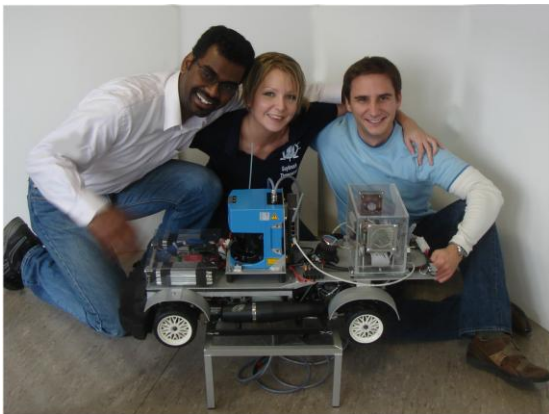
Put Germany on Your Resume!

University of Duisburg-Essen

June 6 – August 12, 2011



The University of Duisburg-Essen (UDE) is located in the Rhein-Ruhr Region, one of the largest urban areas in Europe with approximately 15 millions inhabitants. Due to the areas' high density of educational institutions it has been labelled 'Germany's Academic Triangle'. Having 33,000 enrolled students, 5,000 in engineering, UDE is one of the biggest universities in Germany.



German Language Instruction

The official language of this program is English. However, four weeks of intensive German language classes are provided to enable visiting students to socially interact with the native speakers, in-class and beyond.

Partners

Chair of Mechatronics – Prof. Dr. D. Schramm



The Chair of Mechatronics is active in the areas of vehicle dynamics and contributes to the development of Passive and Active Safety Systems, such as Automatic-Park-, Lane-Keep- or Evasion-Assistance. Besides the mechatronic design of these systems, ergonomic aspects of modern driver assistance systems can be studied in a driving simulator.

Institute for Combustion and Gasdynamics – Prof. Dr. C. Schulz



Fuel Efficiency and Clean Combustion are keywords that are given quite a bit of attention these days. Prof. Schulz and his team are studying combustion and effects on combustion at the molecular level with the help of Laser Diagnostics.

Centre for Fuel Cell Technology – Prof. Dr. A. Heinzl

Fuel Cells are heralded as technology of the next generation. The Centre for Fuel Cell Technology, Duisburg, has one of the best equipped

laboratories in Germany, where researchers are working on tomorrow's technology today.

Chair of Material Science and Engineering – Prof. Dr. A. Fischer

The advancement in automotive engineering would not have been possible if not for the development of new materials and coatings. In order to reduce emissions and achieve economical and environmentally sound solutions thermal-spray processes became an interesting alternative to manufacture wear resistant and low-friction cylinder surfaces.

Accommodation

Accommodation will be offered in single rooms with private bathrooms and free WLAN access.

Cultural Program and Excursions

Cultural excursions are offered within the culture and language part of the program. Excursions to German core automotive companies are an important part of the summer program.



Requirements

Junior or senior level engineering background

Program Fee

The program fee for 10 weeks is 3,500 Euro (approx. 5,000\$) and includes language classes, cultural program, automotive engineering classes, industry excursions, accommodation, and a transcript of records.

Credits

Credit transfer for language and engineering classes is organized with the corresponding American partner universities.

The *Pennsylvania State University* as leading partner in this summer program provides three (3) lower-level credits of German language and six (6) upper-level credits of Mechanical Engineering for this program.