

Germany invites you to the International Summer University (ISU 2014).

Meet German and international students, study Robotics and Biosystems Modelling, visit Germany and have fun.



Location: Ostfalia  
University of Applied Sciences  
Wolfenbuettel, Germany

Department of Computer Science  
in Cooperation with:  
Department of Supply Engineering:  
Environmental Engineering

Date: May 19 – May 30, 2014

Registration: until February 28, 2014

Course fees: 400 €, including accommodation,  
breakfast, lunch and excursions

Web: [www.isu-cs.ostfalia.de](http://www.isu-cs.ostfalia.de)

Contact: Prof. Dr. Lie J. S.  
Phone: +49(0) 5331 939 31510  
E-mail: [lie@ostfalia.de](mailto:lie@ostfalia.de)

for students of BEE Ostfalia  
Dr. H. Sander  
[h.sander@ostfalia.de](mailto:h.sander@ostfalia.de)

Ostfalia  
University of Applied Sciences

Salzdahlumer Str. 46/48  
D-38302 Wolfenbuettel  
Germany

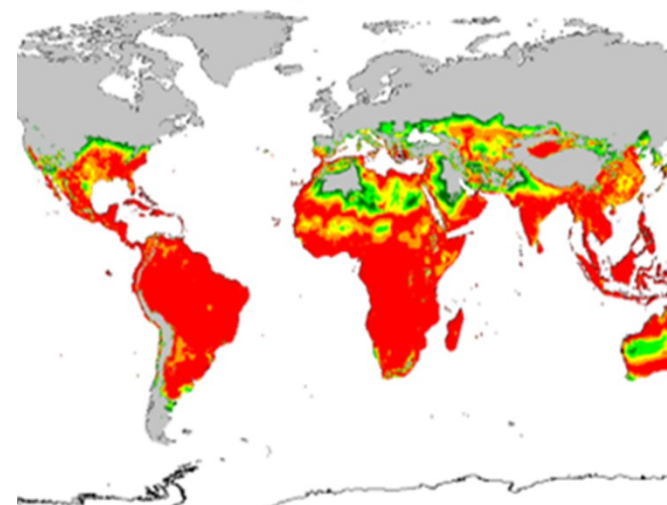
Phone +49(0) 5331 939 0  
Web [www.ostfalia.de](http://www.ostfalia.de)

# International Summer University 2014

Study  
**Robotics and Biosystems Modelling**  
and visit **Germany**

May 19 – May 30, 2014  
Wolfenbuettel, Germany

Wolfenbützel



Salzgitter

Sudenburg

Wolfsburg

## ROBOTICS AND BIOSYSTEMS MODELLING

Robotics and modelling of biosystems are becoming increasingly important in collecting and evaluating data sets for optimization aspects in production and predictions of system behaviour. Two courses are offered:

**Robotics and Biosystems Modelling (Course CS I / II)**  
(Asst. Prof. Ph.D. D. Riley, University of Wisconsin-Parkside and Prof. Dr.-Ing. R. Gerndt, Ostfalia University of Applied Sciences)

A course on biosystems modelling will be provided including a computer lab experience where algorithms taught in class can be applied to real-world data sets in order to better understand the advantages and drawbacks of different approaches.

The course will also get involved with robotics in environmental engineering. Participants will get acquainted with robotics in environmental measurement techniques in a hands-on approach.

**Biosystem Behaviour: Microalgae (Course ES I / II)**  
(Dr. H. Sander, Ostfalia University of Applied Sciences, Prof. Dr. J. Skalbeck and Prof. Dr. F. Preuss University of Wisconsin-Parkside)

The course will provide an overview on typical microorganism behaviour, environmental needs and culture development, techniques to collect and evaluate data sets, geosystems.

The course includes a hands-on lab session where examples of data collection techniques will lead to a better understanding of robotic requirements for data collection and difficulties in collecting and evaluating data sets for modelling approaches.

## EXCURSIONS AND FIELD TRIPS



128 years ago German pioneers invented the automobile. Today Europe's largest car manufacturer Volkswagen is located in the region of Ostfalia. Meet workers and engineers at the assembly lines and inspect the latest models of Volkswagen.

**Wolfsburg:** Volkswagen Factory Tour and Autostadt

**Hamburg:** Airbus Factory Tour and Harbour Tour

**Wolfenbuettel:** Town walk and Duke August Library

**Braunschweig:** Town walk, Birth place of Carl-Friedrich Gauss

Copyrights:  
Photo of Volkswagen plant: Andreas Praefcke (CC-BY 3.0)

## CULTURE AND LANGUAGE

Visit Germany and get an insight into German history, culture and language.

The region Braunschweig / Wolfenbuettel will lead you back to the Middle Ages. In Berlin, Germany's capital, you will come in touch with the former border line between East and West. In Potsdam you can feel the glory of Prussian Kingdom.

**German Language, History and Culture (Course GL)**  
(Prof. Ph.D. S. Christoph, University of Wisconsin-Parkside)

### Berlin, capital of Germany

City tour, Reichstag - Parliament Building, Chancellery, and former line of the Iron Curtain

### Potsdam

Sanssouci: former summer palace of Frederick the Great

