

Ostfalia University of Applied Sciences in Wolfenbuettel, Germany, invites you to the International Summer University (ISU 2019).

Meet German and international students, study Integrated Systems in Water Quality Monitoring, visit Germany and have fun.



Location: Ostfalia  
University of Applied Sciences  
Wolfenbüttel, Germany

Department of Computer Science

in Cooperation with:

Department of Supply Engineering:  
Environmental Engineering

Date: August 5<sup>th</sup> – 18<sup>th</sup>, 2019

Registration: until April 30<sup>th</sup> 2019

Course fees: 450 €, including accommodation,  
breakfast, lunch and excursions

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

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This ISU is part of a two series ISU in 2019 and 2020. **ISU II will be hosted by University of Wisconsin at Parkside, Wi, USA, in 3<sup>th</sup> – 16<sup>h</sup> of August 2020 (course fees there on request).** Both ISU will be jointly credited with 5 CP(EU). Participants of ISU I will have first choice in enrollment to attend ISU II, otherwise on first come, first serve base.

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# International Summer University 2019

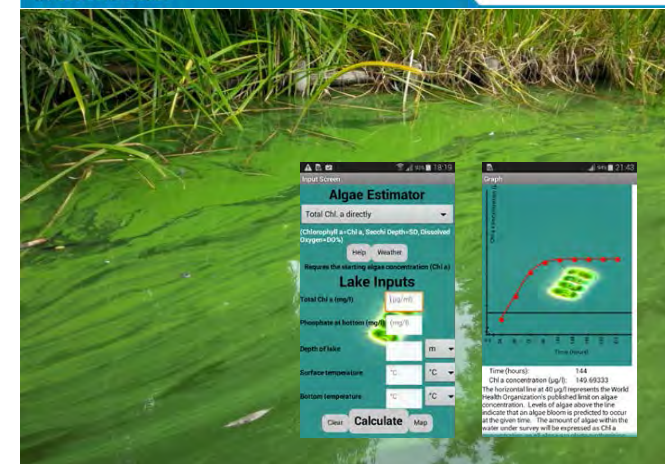
Study  
**Robotics for Environmental  
Monitoring**

and visit **Germany**

August 5<sup>th</sup> - August 18<sup>th</sup> 2019

Ostfalia University of Applied Sciences,  
Wolfenbüttel, Germany

## Wolfenbüttel



Salzgitter

Suderburg

Wolfsburg

## MOBILE INTEGRATED SYSTEMS FOR ENVIRONMENTAL MONITORING

Waste from industrialization and urbanization increasingly create a source of pollution in terrestrial and aquatic systems leading to land and water pollution and lake eutrophication. In order to monitor water quality, eutrophication and harmful algal blooms a smartphone app is developed and equipped with additional service features.

Part 1: ISU 2019 at Ostfalia, Wolfenbüttel:

### Water Monitoring and Bioremediation Concepts (ES I / II)

*Prof. Preuss (UWP); Dr. Sander (Ostfalia)* Participants will get acquainted with biological background and techniques to collect and evaluate data sets under field conditions in order to evaluate and predict eutrophication status in lake waters. They will get acquainted with bioremediation concepts and the role of monitoring options.

### Robotics for Biomonitoring (Course CS I / II) Prof

*Altahad, (UWP); Prof. Gerndt (Ostfalia)* Participants will work on robotics and mobile probe development and enhance an existing mobile application with cloud functionality and data analysis capabilities. In lectures the context will be prepared, and in lab sessions with hands-on project work, participants will develop tools for cloud storage, data mining, and statistical analysis of the app data as a service to environmental institutions for a continuous monitoring of different lake regions.

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Ostfalia Students can apply for financial aid to participate in ISU II (Information on course fees there on request).

## EXCURSIONS AND FIELD TRIPS



125 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

**Berlin:** Sight Seeing Tour Berlin and Potsdam

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

**Braunschweig:** Town walk, Gauss Birth place



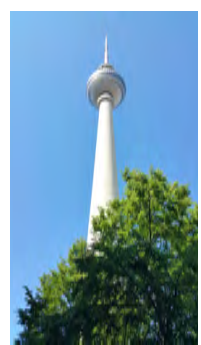
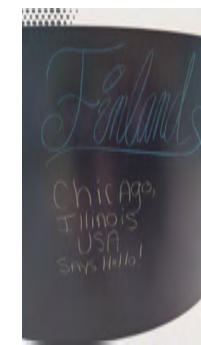
## CULTURE AND LANGUAGE

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.

### German Language, History and Culture (Course GL)

(Prof. PhD. S. Christoph, University of Wisconsin-Parkside)



### Berlin, capital of Germany

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