

Ostfalia University of Applied Sciences in Wolfenbuettel, Germany, invites you to the International Summer University (ISU 2018).

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: July 30th – August 11th, 2018

Registration: until April 30th, 2018

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 2018. **ISU 2 will be hosted by University of Wisconsin at Parkside, WI, USA, in 13th – 26th of August 2018 (course fees there on request).** Both ISU will be jointly credited with 5 CP(EU).

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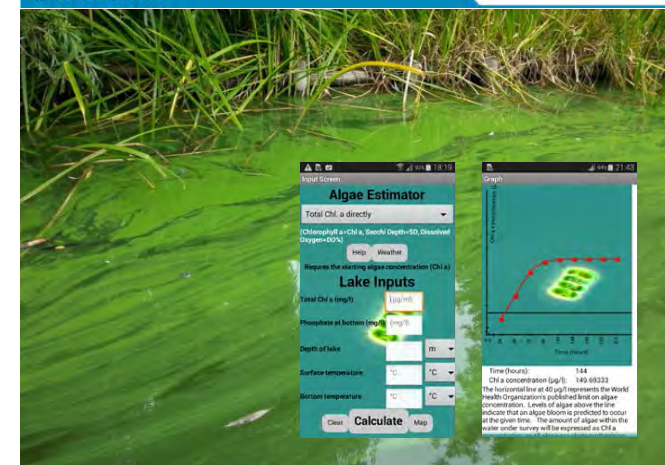
# International Summer University 2018

Study  
**Mobile Integrated Systems for  
Environmental Monitoring**  
and visit **Germany**

July 30th - August 11th 2018

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: SU 2018 at Ostfalia, Wolfenbüttel:

### Water Monitoring and Bioremediation Concepts (ES I / II) Prof. Skalbeck (UWP); Dr. Sander (Ostfalia)

Participants in will get acquainted with 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.

### Mobile – Cloud Integrated Systems (Course CS I / II)

Prof. Altahad, (UWP); Prof. Weimar (Ostfalia) Participants will 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 acontinuous monitoring of different lake regions.

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Ostfalia Students can apply for financial aid to participate in ISU 2 (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



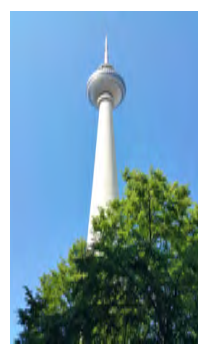
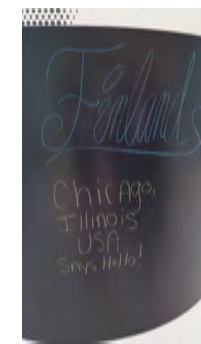
## CULTURE AND LANGUAGE

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.