



International Summer University 2014: Robotics and Biosystems Modeling

May 19 – May 30, 2014 in Wolfenbuettel. Germany

Ostfalia University of Applied Sciences in Wolfenbuettel, Germany, **invites you** to the International Summer University (ISU 2014). Meet German and international students, study Robotics and Biosystems Modeling, visit Germany and have fun.

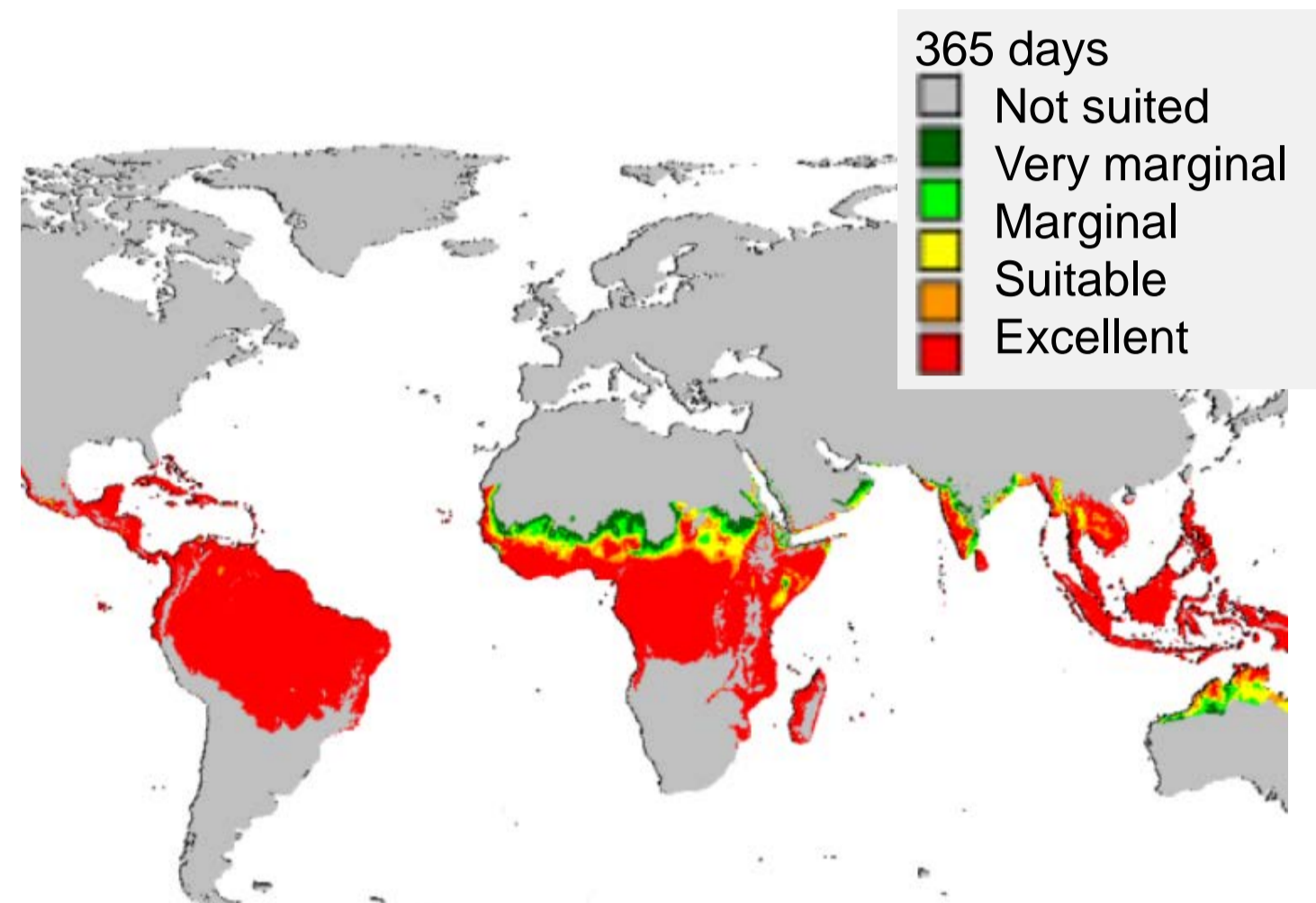
CULTURE AND LANGUAGE

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.

Berlin, capital of Germany

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

- Wolfsburg:** Volkswagen Factory Tour and Autostadt
- Wolfenbuettel:** Town walk and Duke August Library
- Braunschweig:** Town walk, Birth place of Carl-Friedrich Gauss



ROBOTICS / BIOSYSTEMS

Robotics and modeling 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 Biosystem Modeling (Course CS I / II)

(University of Wisconsin-Parkside, Ostfalia University of Applied Sciences)

A course on biosystem modeling 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)

(Ostfalia University of Applied Sciences, 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.

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

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