



AALBORG UNIVERSITY  
DENMARK

## PhD positions within intelligent web and information systems

Within the programme Science without Borders, Aalborg University is offering a PhD position at the Department of Computer Science, Selma Lagerloefs Vej 300, DK-9220 Aalborg East.

The positions are administrated by “Science without borders” and financed by stipends through CAPES. The overall theme is “Computing and Information Technology”. Acceptance of employment is on condition of the grant from CAPES.

### Department

The positions are available within Intelligent Web and Information Systems group (<http://iwis.cs.aau.dk>) at the Department of Computer Science. Currently active research areas of the group are influenced by World Wide Web research. The World Wide Web has had an extremely significant impact on access to information and information services. Web-based applications are influencing many domains such as business, commerce, banking and learning. The Web has simplified access to information and information services, enabling a variety of users with different backgrounds, social situations, and so on to participate. With the recent movement to Web 2.0 and collaborative co-construction of information, information grows on the World Wide Web more than ever before. World Wide Web therefore features new situation where traditional methods for information access, information processing, information retrieval, and information presentation hit their limits. The IWIS group studies and contribute with methods, tools and techniques for **intelligent information systems and web** in the above mentioned context. In particular, the focus is put on:

- **infrastructures for intelligent information systems on the web** - infrastructures which allow intelligent and personalized access to information and services, information exchange and coordination of conversation between distributed services;
- **web personalization strategies and algorithms** - strategies and algorithms which take a knowledge about user and his context into account when recommending information and services;
- **engineering adaptive web** - researching how the experiences from web personalization strategies and algorithms as well as infrastructures can be transferred into guidelines for engineering adaptive web applications

### Projects

The PhD projects can fit in the following topics:

- Web Intelligence and Web Personalization (search, social networks, web analytics, big data and the web, information retrieval, recommender systems, adaptive navigation, intelligent user interfaces, multimodal access, and so on)
- Semantic Web and Linked Data (new techniques for extending or applying semantic web and linked data technologies)
- Novel methods for constructing web applications (web engineering, improving performance of web applications, new challenging applications, new technologies and languages for web applications, and so on)
- Service Oriented Systems (Web Services, Clouds, Fault Tolerance, Transactions, Recovery, and so on)

## **Requirements**

- Master degree in computer science or related field.
- Proficiency in English in all aspects of communication is required
- Strong skills in programming
- Some experience or Master thesis in above mentioned area is an advantage

Contact person: Associate Professor Peter Dolog (<http://www.cs.aau.dk/~dolog>, [dolog@cs.aau.dk](mailto:dolog@cs.aau.dk))

## **Duration**

Each PhD project has a standard duration of three years.

**To apply please see the link below:**

<http://www.en.tek-nat.aau.dk/vacant+positions/Science+without+Borders/>