

# MSC IN COMPUTER SCIENCE\*

## FOR A CAREER IN PROGRAMMING AND SOFTWARE DEVELOPMENT

### HIGH-LEVEL RESEARCH

Whether you are interested in complex algorithms, IT security, logic and semantics, pervasive computing or something completely different within the field of computer science, this research-oriented programme will give you the opportunity to specialise in an area of your choice.

For more information regarding research areas in computer science at Aarhus University, visit [cs.au.dk/research-at-cs/](http://cs.au.dk/research-at-cs/).

### PREREQUISITES

We expect applicants to have a thorough basic computer science education from your bachelor's degree, including computation theory (formal languages, mathematical logic, undecidability, design and analysis of algorithms and data structures); programming (object-oriented programming, functional programming, software architecture, interaction design, web technology); systems (computer architecture, operating systems, distributed systems, security, databases). For the student who can meet these requirements, our Master's programme offers a number of specialisations.



I am a developer with technical responsibility for a variety of projects. My responsibilities range from coding programming languages and algorithms to operating systems and networks for user design. On a typical working day, I work on developing and designing new products. I cooperate with most of the other divisions in our organisation to ensure that there's broad agreement about product design, test plans and project plans.

#### ANDERS MADSEN

PhD in Computer Science,  
Developer at VMware Inc., Incuba Science Park

### IT CITY KATRINEBJERG

The Department of Computer Science is located in IT City Katrinebjerg, where Aarhus University has consolidated all its IT degree programmes and research. IT City is the base for several IT-related companies and facilitates contact between education, research and the business community, providing the ideal basis for advanced technological innovation. As the largest IT education centre in Denmark, with approximately 2,500 students and more than 250 researchers, IT City is an exciting study environment. This multidisciplinary starting-point, unique to Aarhus University, provides great opportunities in IT for students, researchers and the business community.

The department has well-equipped lecture theatres, flexible rooms which are ideal for working in groups, offices for writing your thesis, a library, and a large shared canteen. Thanks to the department's collaboration with the Centre for Advanced Visualisation and Interaction (CAVI), students have access to a 3D panorama cinema, a virtual studio, and advanced light-technology equipment.

### STUDENT LIFE

The Department of Computer Science has a range of social spaces where you can meet other students outside class, and this is an excellent basis for social activities. There is also a popular Friday bar, and the Tågekammeret association organises celebrations and social events for all science and technology students.

### CAREERS

Computer science continues to be a competitive field and AU computer science graduates are in high demand. Recent graduates have been recruited by leading IT companies including LEGO, Systematic, and Google, in areas like web technology and development, IT consultancy, project management and research.

The Department of Computer Science also has a strong PhD programme covering both experimental and theoretical fields.



#### PLACE OF STUDY

Aarhus

#### ANNUAL TUITION FEE

EU/EEA/Swiss citizens: FREE  
Others: EUR 13,500

#### WWW

[masters.au.dk/computerscience](http://masters.au.dk/computerscience)