

MSC IN NANOSCIENCE*

A PRACTICAL AND RESEARCH-ORIENTED STUDY IN AN INTERNATIONAL ENVIRONMENT

Nanoscience is an interdisciplinary field within the natural sciences. It deals with understanding and utilising materials and phenomena at the nanoscale – that is, between 0.1 and 100 nanometres. The ability to work on this scale makes it possible to develop highly improved or completely new functions and properties in a wide range of materials.

The MSc in Nanoscience programme at Aarhus University is open to students with a BSc degree from a Danish or an international university and with an interdisciplinary background in nanoscience and/or physics, chemistry and molecular biology. The Nanoscience degree programme is both practical and research-oriented. Students can complete an MSc project in a number of areas, including nanomaterials, nanocatalysis, nanobiotechnology, nanomedicine, nanofood, toxicology, and ethical aspects of nanotechnology.

STRUCTURE OF THE PROGRAMME

The MSc programme consists of 120 ECTS credits. Students study subjects within the fields of physics, chemistry and molecular biology, as well as specific nanoscience subjects. Based on their previous academic specialisation, students choose their courses and the subject of their MSc project so as to specialise in either nanophysics, nanochemistry, or molecular biology. Students are offered guidance in selecting their individual course programmes from a suite of Master's courses offered by iNANO and the relevant departments. The degree programme concludes with the Master's project.

INTERDISCIPLINARY iNANO

The Nanoscience degree programme at Aarhus University is based at the Interdisciplinary Nanoscience Centre, iNANO. iNANO is staffed by researchers in the departments of physics, chemistry, molecular biology and genetics, and bioscience, as well as a considerable number of associated researchers from the Faculty of Health. The centre's mission is to build on three basic pillars: top-level international research, education at all levels from BSc to PhD, and innovation and interaction with industry and society at large.

CAREER PROFILE

As a graduate in nanoscience, you will be qualified to work in R&D in both public and private sectors in medicine, the environment, biotechnology, and the IT and communication industries. A number of R&D projects are currently under way at iNANO itself, in collaboration with



I had the chance to study at other universities, but I chose Aarhus University because the Interdisciplinary Nanoscience Centre here is very good and has an excellent reputation. The research environment is also excellent. We have a lot of great equipment and enough funding to do our projects. I like working in this very international environment. With so many people from different backgrounds, we can share very different and interesting ideas.

SHUAI ZHANG

PhD student in Nanoscience, from China

approximately 100 Danish and international companies, including Danfoss, Grundfos, Arla Foods, Haldor Topsøe, Lundbeck, Novozymes, and Aalborg Portland. The iNANO School – part of the iNANO Centre – comprises both an international graduate school and associated research groups in physics, chemistry, biology, and molecular biology, working in the field of nanoscience and nanotechnology. iNANO promotes excellent science and provides an academic environment for PhD students of the highest calibre, and many graduates of the programme go on to do a PhD.



PLACE OF STUDY

Aarhus

ANNUAL TUITION FEE

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

WWW

masters.au.dk/nanoscience