

PhD fellowship: **Digital Design and Production**

At the Aarhus School of Architecture, a three-year PhD fellowship is vacant from **1st April 2012** within the field of

"Digital Design and Production"

This is to announce a PhD fellowship in digital design and production at the Aarhus School of Architecture. In offering this fellowship, the aim of the Aarhus School of Architecture is to strengthen the construction of knowledge about digitally based design processes with a particular focus on the interaction with digitally controlled processes of production.

The PhD fellowship is a scientific programme for graduates from one of the Danish schools of architecture or holders of another relevant degree. The aim of the enrolment is to acquire a PhD in architecture.

The project

Recent years has seen a fast-growing development in digitally based design-software. It is increasingly becoming possible to program design-software to respond to specific conditions through, for instance, simulation or optimisation. This development corresponds to a similar development in digitally controlled production facilities and tools. This has resulted in a series of challenges and possibilities with regard to the interaction between the design process of architects and designers and the manufacturing process of manufacturers; this allows us to see the outline of a new material practice within the architectural profession.

In announcing this PhD fellowship, the Aarhus School of Architecture requests proposals that investigate questions related to this development. This may be through research in the tectonic, constructive, material and textural potential of such approaches. Or through research in the consequences of this development for architectural design and work processes, implications for the use and understanding of representation by the architect, etc.

The Aarhus School of Architecture has chosen an openly formulated announcement in order to invite challenging and explorative proposals for possible research projects; however, presenting a precisely defined problem and a realistic time schedule will be a requirement for a project to be taken into consideration for the vacancy.

The aim of the Aarhus School of Architecture is to strengthen and develop design-based research. An investigation may consequently be carried out as research-by-design, i.e. by means of the development of investigative or specific projects in hypothetical situations or in locations chosen based on relevant criteria accompanied by reflection which renders explicit investigative processes and results conceptually, theoretically as well as methodically.

Salary and specific terms

Enrolment as a PhD scholar implies employment as a wage-earning PhD-fellow according to 'Departmental Circular on PhD scholars to Agreement for Government-Employed Academics of 15 November 2011 and is positioned according to seniority.

On wage level 4, salaries, including supplements and pension, amount to DKK 28,470 – on wage level 8 (the final level) they amount to DKK 34,449 per month (1.11.2011-figures)

A condition for employment as a PhD fellow is that he/she is under the obligation to undertake teaching assignments for up to 840 hours during the whole period. Furthermore, he/she must participate in courses and other forms of education for at least six months.

Applications

There are no application forms. Applications must be written in Danish, Norwegian, Swedish or English in such a way as to make it possible to evaluate applicants' qualifications and their ability to perform the project.

Applications must contain:

a project description stating the subject, the problem complex and its delimitation, the theories and methods that the applicant proposes to apply and the expected result of the study,
a preliminary timetable, including information on any stays at other research institutions, organisations and companies.

The project description must be a relatively detailed, subject-specific description of the PhD project, while the timetable should be a brief outline of the expected course of studies at three-monthly intervals.

The total length of applications, including notes, should not exceed 14,400 characters, corresponding to approximately six A4 pages. In addition, the following documents should be enclosed with the application:

A copy of the certificate of graduation,
A curriculum vitae and a list of publications, if any.

Where possible and relevant, the following should also be enclosed:

Information on project-specific educational needs,
Information on special needs for equipment and facilities – including any facilities needed as a consequence of a handicap,
a budget as far as there is a need for special equipment or special educational needs – including travelling and studies at other research institutions,
Information on any specific wishes with regard to main supervisor and project supervisor and possible supplementary supervisor.

Further information

Further information about the PhD study programme at the Aarhus School of Architecture is available in the 'PhD Handbook, which can be found [at http://en.aarch.dk/doctoral_studies/enrollment/](http://en.aarch.dk/doctoral_studies/enrollment/) or ordered from Research Coordinator Hanne Foged Gjelstrup, tel. (+45) 89 36 01 28.

You are also welcome to contact Head of Research Claus Peder Pedersen regarding the fellowship.

Applications must be marked **2313-17-11** and sent to Aarhus School of Architecture, Nørreport 20, 8000 Aarhus C or to aaa-job@aarch.dk and must reach the school no later than **7th of February 2011 at 12:00**.

About the Aarhus School of Architecture

The Aarhus School of Architecture is an institution of higher education under the Danish Ministry of Science, Innovation and Higher Education which has the purpose of providing training in architecture on an artistic and scientific basis up to the highest level, and of practicing artistic development activities and performing research in the field of architecture on a scientific basis.

The Aarhus School of Architecture is attended by approximately 800 students, of whom approximately 175 come from outside Denmark, and it employs approximately 150 people.