



PhD Candidate in Innovation in Buildings in cold climate

Application deadline: 23 november 2016

Ref. no 2016/8064

The Department of **building, energy and material technology** has a PhD positions vacant for applicants who wish to obtain the degree of Philosophy Doctor (PhD). The position is attached to the research group Building, energy and material technology (BEaM), and the projects will contribute towards on-going research in the field of building, energy and material technology.

The appointment is for a period of four years.

The PhD position is for a fixed term, with the objective of completion of research training to the level of a doctoral degree. Admission to a PhD programme is a prerequisite for employment, and the programme period starts on commencement of the position.

The PhD candidate shall participate in the faculty's organized research training, and the PhD project shall be completed during the period of employment. Information about the application process for admission to the PhD programme, application form and regulations for the degree of Philosophiae Doctor (PhD) are available at the following address: https://uit.no/om/enhet/forsiden?p_dimension_id=210108

Further information about the positions is available by contacting head of department Bjørn R Sørensen, phone: +47 97013801, e-mail: bjorn.r.sorensen@uit.no or Rajnish.K.calay, phone: +47 94871340, e-mail: rajnish.k.calay@uit.no.

The position's affiliation

The positions will be affiliated with the department of building, energy and material technology, and the PhD-candidate will be part of the research group Building, energy and material technology (BEaM). The department is responsible for various study programs related to building technology, as well as to renewable energy, and the number of students are approximately 400. The department organizes most research activities under research groups. The group conducts applied research in interdisciplinary themes of building, energy and material to develop technologies that are energy efficient, environmentally friendly and sustainable. Our research strengths are in construction technologies and renovation of buildings, renewable energy technologies including bio energy, hydrogen and fuel cells and building materials especially for cold climate and the Arctic conditions.

https://en.uit.no/forskning/forskningsgrupper/gruppe?p_document_id=473021

The position's field of research/research project and other duties

Innovation in buildings in cold climate:

Innovation in building technologies for cold climate focuses on developing sustainable cold climate technologies and related solutions for subarctic regions around the world.

Many advances have been made in the concept of energy efficient buildings such as passive design, zero carbon building and refurbishment technologies with latest trends as active and energy plus buildings, which have energy excess their needs. Energy efficient buildings in cold climate particularly need to have a high level of airtightness, insulation and good construction methods. Energy models depend on assumptions made at the design stage. Many times these building does no perform as well as expected. This PhD will investigate design, construction techniques and materials aspects that make up an energy efficient building particularly suited to cold climate/arctic conditions. The research work analyses the existing material and technologies databases in scientific literature supplemented by experimental investigation using facilities available in the department. The project may lead to innovative technology; developing assessment methodology; design tool for energy efficient and comfortable buildings

Further information about the position is available by contacting prof. Rajnish.K.Calay, phone: +47 94871340, e-mail:

rajnish.k.calay@uit.no.

Qualification requirements

The candidate should have bachelor degree in Civil, Mechanical or Building Services engineering and masters engineering in the field relevant to the theme of the projects. The successful applicant must fulfil the requirements for admission to the faculty's PhD programme, cf. Regulation for the degree of Philosophiae Doctor (PhD) at UiT The Arctic University of Norway. In addition, he/she be able to document proficiency in English equivalent to Norwegian Higher Education Entrance Qualification, refer to the website about [PhD regulations at UiT](#).

The applicant may present a description outlining the academic basis of the PhD project.

Emphasis is attached to personal suitability.

Working conditions

Position for a four-year period: The normal period of employment is four years. The nominal length of the PhD programme is three years. The fourth year, distributed as 25 % of each year, shall be used for teaching or other duties for the university, cf. Guidelines for the research fellow's duties.

A shorter period of appointment may be decided when the research fellow has already completed parts of his/her research training programme or when the appointment is based on a previous qualifying position (PhD Candidate, research assistant, or the like) in such a way that the total time used for research training amounts to three years.

Remuneration for the position of PhD Candidate is in accordance with the State salary scale code 1017 (or code 1378) (or both codes depending on qualifications). A compulsory contribution of 2 % to the Norwegian Public Service Pension Fund will be deducted.

Assessment

The applicants will be assessed by an expert committee. During this assessment process, emphasis will be attached to the applicant's potential for research as shown by:

- Master's thesis or equivalent
- any other academic works, and
- project description (if required)

In addition, consideration may be given to work experience or other activities of significance for the implementation of the PhD studies, and to any teaching qualifications. This includes teaching education, teaching experience, experience from popularization and experience/education from other types of dissemination. Information and material to be considered during the assessment must be submitted by the stipulated deadline.

The applicants who are assessed as the best qualified will be called to an interview. The interview shall among other things aim to clarify the applicant's personal suitability for the position.

Application

The **application** must be submitted electronically via the application form available on www.jobbnorge.no.

The application must include:

- Letter of application
- Proposal for project description
- CV (containing a complete overview of education, supervised professional training and professional work)
- copies of:
 - diploma and transcript from your Bachelor's degree or equivalent
 - diploma and transcript from your Master's degree or equivalent
 - diploma supplement for completed degrees
 - documentation of English language proficiency
 - project description (optional)
- List of works and description of these (see below). The list of works shall contain the following information:
 - author(s), the work's title
 - for articles: the journal's name and volume, the first and last page of the article, year of publication
 - for publications: publisher, printer, year of publication, number of pages
- The works (published or unpublished) which the applicant wishes to be taken into consideration during the assessment process must be submitted
- List of references with contact information.

All documentation that is to be evaluated must be certified and translated into English or a Scandinavian language.

Information and material to be considered during the assessment must be submitted by the stipulated deadline.

Applicants shall also refer to the [Supplementary regulations for appointment to postdoktor \(Postdoctoral Fellow\), stipendiat \(PhD\) and vitenskapelig assistent \(Research Assistant\) positions at UiT The Arctic University of Norway](#) and to the [Regulations concerning terms and conditions of employment for posts of postdoktor \(Postdoctoral Fellow\), stipendiat \(PhD\), vitenskapelig assistent \(Research Assistant\) and spesialistkandidat \(Resident\)](#). (In Norwegian only)

Questions concerning the organisation of the working environment, such as the physical state of the place of employment, health service, possibility for flexible working hours, part time, etc. as well as questions about the PhD programme may be directed to the telephone reference in this announcement.

UiT has HR policy objectives that emphasize diversity, and encourages all qualified applicants to apply regardless of their gender, functional ability and national or ethnic background.

UiT is an IW (Inclusive Workplace) enterprise, and will emphasize making the necessary adaptations to the working conditions for employees with reduced functional ability.

Personal data given in an application or CV will be processed in accordance with the Act relating to the processing of personal data (the Personal Data Act). In accordance with Section 25 subsection 2 of the Freedom of Information Act, the applicant may request not to be registered on the public list of applicants. However, the University may nevertheless decide that the name of the applicant will be made public. The applicant will receive advance notification in the event of such publication.

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