



Jobbnorge ID: 206729
Deadline: 8/7/2021
Website: <https://uit.no/startside>
Scope: Fulltime
Duration: Fixed Term

Faculty of Engineering Science and Technology

PhD Fellow in Computational Fluid Dynamics - CFD

The position

A PhD position is available at the [Department of Automation and Process Engineering](#), [Faculty of Engineering Science and Technology](#), in Computational Fluid Dynamics, with the research group IR, Spectroscopy, and Numerical Modelling.

The workplace is at UiT in Tromsø. You must be able to start in the position within a reasonable time after receiving the offer.

The position is for a period of four years. The nominal length of the PhD programme is three years. The fourth year is distributed as 25 % each year and will consist of teaching and other duties. The objective of the position is to complete research training to the level of a doctoral degree. Admission to the PhD programme is a prerequisite for employment, and the programme period starts on commencement of the position.

The position's field of research

The department is looking for a PhD Fellow to work with computational fluid dynamics (CFD) of airflow distribution systems and aerosol-based disease transmission in indoor environments. The successful applicant will use CFD simulation tools to identify transmission mechanisms of indoor bioaerosols and how different airflow distribution strategies affect airborne disease transmission risk. The objective of the project is to develop safe airflow distribution solutions to mitigate the transmission of COVID-19 and other pathogenic bioaerosols in nursing homes. The built knowledge may contribute to reducing healthcare-acquired infections in nursing home rooms, optimizing design, operation, maintenance of future nursing ventilation infrastructure, and raising awareness of effects of nursing homes ventilation. The results of the project may prepare the ground for future guidelines, standards, and codes.

The position is affiliated with the research group IR, Spectroscopy, and Numerical Modelling. For more information, [see this website](#).

Contact

For further information about the position, please contact Associate professor Amar Aganovic:

- phone: 77 66 02 67
- email: amar.aganovic@uit.no

or Head of Department Tor Schive:

- phone: 77 66 03 57
- email: tor.schive@uit.no

Qualifications

This position requires a master's degree or equivalent in mechanical, civil og biomechanical engineering, physics, mathematics or other relevant fields. The candidate should have prior experience in using computational fluid mechanics (CFD). Documented competence in the use of ANSYS Fluent or a similar CFD simulating software is considered an advantage.

Applicants must document fluency of in English and be able to work in an international environment.

The applicants must present a description outlining the academic basis of the PhD project. The project description shall not exceed 2 pages, literature references included. It must include a short description of the theme, research question(s) and a reasoning of the choices. It should also indicate the methodologies to be used. The final project description will be developed in cooperation with the supervisor.

In the assessment, the emphasis is on the applicant's potential to complete a research education based on the master's thesis or equivalent, and any other scientific work. In addition, other experience of significance for the completion of the doctoral programme may be given

consideration.

We will also emphasize motivation and personal suitability for the position.

As many as possible should have the opportunity to undertake organized research training. If you already hold a PhD or have equivalent competence, we will not appoint you to this position.

Admission to the PhD programme

For employment in the PhD position, you must be qualified for admission to the PhD programme at the [Faculty of Engineering Science and Technology](#) and participate in organized doctoral studies within the employment period.

Admission normally requires:

- A bachelor's degree of 180 ECTS and a master's degree of 120 ECTS, or an integrated master's degree of 300 ECTS.
- A master's thesis with a scope corresponding to at least 30 ECTS for a master's degree of 120 ECTS.
- A master's thesis with a scope corresponding to at least 20 ECTS for an integrated master's degree of 300 ECTS.

In order to gain admission to the programme, applicants with a background from a Norwegian institution should have a minimum grade of C on their master thesis and a weighted grade average of 3.0 for the last two years of their master programme. A more detailed description of admission requirements can be found [here](#).

Applicants with a foreign education will be subjected to an evaluation of whether the educational background is equal to Norwegian higher education, following national guidelines from [NOKUT](#). Depending on which country the education is from, one or two additional years of university education may be required to fulfil admission requirements, e.g. a 4-year bachelor's degree and a 2-year master's degree.

Inclusion and diversity

UiT The Arctic University of Norway is working actively to promote equality, gender balance and diversity among employees and students, and to create an inclusive and safe working environment. We believe that inclusion and diversity is a strength and we want employees with different competencies, professional experience, life experience and perspectives.

If you have a disability, a gap in your CV or immigrant background, we encourage you to tick the box for this in your application. If there are qualified applicants, we invite at least one in each group for an interview. If you get the job, we will adapt the working conditions if you need it. Apart from selecting the right candidates, we will only use the information for anonymous statistics.

We offer

- Involvement in an interesting research project
- Good career opportunities
- A good academic environment with dedicated colleagues
- Flexible working hours and a state collective pay agreement
- Pension scheme through the state pension fund
- More practical information for working and living in Norway can be found here: <https://uit.no/staffmobility>

Application

Your application must include:

- Cover letter explaining your motivation and research interests
- CV
- Diploma for bachelor's and master's degree
- Transcript of grades/academic record for bachelor's and master's degree
- Explanation of the grading system for foreign education (Diploma Supplement if available)
- Documentation of [English proficiency](#)
- References with contact information
- Master's thesis, and any other academic works
- Project description (1-2 pages)

Qualification with a master's degree is required before commencement in the position. If you are near completion of your master's degree, you may still apply and submit a draft version of the thesis and a statement from your supervisor or institution indicating when the degree will be obtained. You must document completion of your degree before commencement in the position. You must still submit your transcripts for the master's degree with your application.

All documentation to be considered must be in a Scandinavian language or English. Diplomas and transcripts must also be submitted in the original language, if not in English or Scandinavian. We only accept applications and documentation sent via Jobbnorge within the application deadline.

General information

The appointment is made in accordance with State regulations and guidelines at UiT. At our website, you will find more [information for applicants](#).

A shorter period of appointment may be decided when the PhD Fellow has already completed parts of their research training programme or when the appointment is based on a previous qualifying position PhD Fellow, 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 Fellow is in accordance with the State salary scale code 1017. A compulsory contribution of 2 % to the Norwegian Public Service Pension Fund will be deducted.

We process personal data given in an application or CV in accordance with the Personal Data Act (Offentleglova). According to the Personal Data Act information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure. You will receive advance notification in the event of such publication, if you have requested non-disclosure.

UiT - Developing the High North

UiT is a multi-campus research university in Norway and the northernmost university of the world. Our central location in the High North, our broad and diverse research and study portfolio, and our interdisciplinary qualities make us uniquely suited to meet the challenges of the future. At UiT you can explore global issues from a close-up perspective.

Credibility, academic freedom, closeness, creativity and commitment shall be hallmarks of the relationship between our employees, between our employees and our students and between UiT and our partners.

Additional information

Place of service:

Lodve Langes gt. 2 8505 Narvik (Narvik Municipality)