



## The Combustion Institute

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## PhD position in process safety technology (hydrogen)

University of Bergen (UiB) has a vacancy for a PhD position in process safety technology (energy-related safety technology) at the Department of Physics and Technology (IFT). The position is for a fixed-term period of four (4) years. The PhD project involves an experimental investigation of the effect of solid suppressants on premixed flames, with an aim to support the development of industrial explosion mitigation and explosion suppression systems. One part of the project will entail the construction and use of a multi-fuel burner where solid particles can be suspended in the gaseous fuel-air mixture that enters the flame zone. It is also relevant to investigate flame propagation under constant volume conditions, either in existing experimental facilities at IFT or as part of a research stay abroad. The experimental investigations will focus on hydrogen-air mixtures and conventional hydrocarbons such as methane and propane. Please consult the advertisement at the Jobbnorge portal for further details:

<https://www.jobbnorge.no/en/available-jobs/job/173179/phd-position-in-process-safety-technology-hydrogen>

### Essential Requirements

- ✓ Applicants must hold a master's degree or the equivalent in physics, chemical engineering, chemical physics, physical chemistry, process safety technology or related topics.
- ✓ Applicants that have submitted the master's thesis for assessment prior to the application deadline will also be considered. It is a condition of employment that the master's degree has been awarded.
- ✓ Hands-on experience from experimental investigations of flames and combustion phenomena is a requirement.
- ✓ Experience from construction of experimental equipment and related infrastructure is an advantage but not a prerequisite.
- ✓ Experience with the use of chemical kinetics software, such as CHEMKIN, CANTERA or COSILAB, is an advantage but not a prerequisite.
- ✓ Experience with image processing in MATLAB or similar software is an advantage but not a prerequisite.
- ✓ Applicants must be able to work independently and in a structured manner and demonstrate good collaborative skills.
- ✓ Applicants must be proficient in both written and oral English.
- ✓ Good command of the Norwegian language is an advantage but not a prerequisite.

Personal and relational qualities will be emphasized.

## How to Apply

Contact: Only applications submitted through the Jobbnorge portal <https://www.jobbnorge.no/> will be considered.

**Application deadline:** 15 September 2019

The application should include:

- ✓ A brief account of the applicant's research interests and motivation for applying for the position
- ✓ The names and contact information for at least two referees. One of the referees should be the main advisor for the master's thesis or equivalent thesis
- ✓ CV, including work experience
- ✓ Transcripts and diplomas showing completion of the bachelor's and master's degrees, or official confirmation that the master's thesis has been submitted
- ✓ Relevant certificates
- ✓ A list of any works of a scientific nature (publication list)
- ✓ Approved documentation of proficiency in English (cf. English language requirements for PhD admission).
- ✓ Copies of relevant publications where you are the main author or one of the co-authors

The application and appendices with certified translations into English or a Scandinavian language must be uploaded at Jobbnorge:

<https://www.jobbnorge.no/en/available-jobs/job/173179/phd-position-in-process-safety-technology-hydrogen>

### Location of the open position:

The University of Bergen (UiB) is a renowned educational and research institution, organised into seven faculties and approximately 54 institutes and academic centres. The campus is located in the city centre of Bergen, and the Department of Physics and Technology is located at Nygårdshøyden, Allégaten 55, 5007 Bergen, Norway.

### Employer's name and contact information:

The employer is University of Bergen, Department of Physics and Technology.

The visiting address for the employer is Allégaten 55, 5007 Bergen, Norway.

For further information, please consult the information at the Jobbnorge portal, or contact Trygve Skjold at e-mail: [trygve.skjold@uib.no](mailto:trygve.skjold@uib.no).

### ***The Combustion Institute Disclaimer***

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