



# PhD Research Fellow in Hydrogen Safety for Ships

The Department of Physics and Technology (IFT) at the University of Bergen (UiB) has a vacancy for a PhD Research Fellow in Hydrogen Safety. UiB is the host for HySchool: [www.hyschool.no](http://www.hyschool.no)

The position belongs to the research group for Energy and Process Technology (EPT) and is funded by the Research Council of Norway (RCN) through the project “Safe Hydrogen Implementation: Pre-normative research for Ships” (SH2IPS). The PhD project may entail experimental investigations of ignition, flame acceleration, and/or detonation phenomena in hydrogen-air mixtures, depending on the available resources and the preferences of the PhD candidate.

## Applications

Applications must be submitted through the JobbNorge portal:

<https://www.jobbnorge.no/en/available-jobs/job/255249/phd-research-fellow-in-hydrogen-safety-for-ships>

The application deadline is 23:59 CET on **Sunday 3 March 2024**

## About the project

The primary objective of the SH2IPS project is to provide science-based recommendations for an international regulatory framework that can facilitate the safe development and deployment of merchant ships powered by hydrogen and hydrogen-based fuels. Further details in the announcement at [jobbnorge.no](http://jobbnorge.no)

## Qualifications

Applicants must hold a master's degree or equivalent education in process safety or relevant fields within physics or engineering. Documented experience from one or several of the following areas is a requirement:

- Experimental investigations of high-voltage (>1.5 kV) electronic circuits and systems for generating and measuring electric sparks or electrostatic discharges.
- Experimental investigations involving transient phenomena in high-pressure (>150 bar) compressed systems, e.g. spontaneous ignition caused by high-pressure hydrogen releases.
- Experimental investigations of flame acceleration and deflagration-to-detonation-transition (DDT) in gaseous fuel-air mixtures.
- Experimental investigations of the effect of chemical inhibitors on premixed flames.

Applicants must be proficient in both written and oral English. Further details in the announcement at [jobbnorge.no](http://jobbnorge.no)

## Your application must include:

- A motivational letter in English, minimum 3 and maximum 5 pages, that describes your research interests and motivation for applying for the position, a discussion of how your competence is relevant for the project, and a brief outline of how you may conduct the project. This attachment must be uploaded as a separate PDF file with the heading “Motivational Letter”.
- A CV, including relevant work experience and certificates.
- Further requirements are outlined in the official announcement.

## Special requirements for the position

The Norwegian regulations for Export Control will be applied in the processing of the applications.

## General terms

- Salary as PhD research fellow (code 1017) in the state salary scale.
- Further increases in salary are made according to length of service in the position.
- Enrolment in the Norwegian Public Service Pension Fund.

## Further information

The official announcement of the position and relevant contact information is available here:

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