

# Postdoctoral position in hydrothermal sciences at the University of Iceland

The Hydrothermal Science and Engineering group at the University of Iceland is seeking a highly motivated postdoctoral researcher. The project is centered around experimental multiphase flow of hydrothermal fluids using a first of its kind multiphase flow loop capable of operating at pressures and temperatures common in geothermal energy exploration. The work will also include dissemination and knowledge-transfer activities, i.e., webinars, presentations, and article publishing.

## About the project

The postdoctoral fellowship is part of a collaborative and knowledge-building GEOPRO project (<https://www.geoproproject.eu/>) funded through the European Horizon 2020 program. The 12 partners of this project include universities, research institutes and industry partners from various European countries. The GEOPRO project aims to improve the accuracy and consistency of key thermodynamic and kinetic input data, and the accuracy of the respective Equations of State (and relevant constitutive equations) specifically in order to develop a verified set of robust, user friendly, flexible and accessible tools to optimize sustainable geothermal reservoir management, power and heat production and reinjection strategies.

## Your tasks

The successful candidate is expected to work on the following topics:

- Perform experimental research related to two-phase fluid flow using flow-loop experimental facilities.
- Work on organizing dissemination and knowledge-transfer activities such as delivery reports, webinars, and presentations.
- Contribute to publication of articles in conferences and journals.
- Take part in supervise/co-supervise graduate and undergraduate students.

## Our offer

The position is available starting January 1, 2023. Initial appointment is for one year with a possible extension. Remuneration is according to the Icelandic public salary and social security benefits are in accordance with the public service regulations. University of Iceland strives for gender equity and diversity.

## Your profile

Applications should include a CV, statement of research interests, and the names and contact information of three references. Please combine all documents in the order listed above in a single pdf. All application materials are due by November 30, 2022 and must be submitted to Andri Stefánsson ([as@hi.is](mailto:as@hi.is)) The application deadline may be extended if the position has not yet been filled.

It is an advantage if the candidate has prior experience within experimental fluid mechanics, multiphase flow, and high pressure and temperature experimental work in general. A high level of personal responsibility and initiative and awareness of HSE challenges related to high pressure and high temperature laboratory experiments is important.

Further information are given by Andri Stefánsson ([as@hi.is](mailto:as@hi.is)) and Erlend Oddvin Straume ([erlend@hi.is](mailto:erlend@hi.is))