

CALL REQUIREMENTS

Call Title: Stru transport- SAF	ctural integrity evaluation of the natural gas grid materials for a safe hydroger E H2
Contact person: Jesus Manuel Alegre	
Department: Civil Engineering	
Category:	⊠ Researcher
	Others
Workday:	⊠ Full time
	☐ Part time

Aim:

The repurposing of the existing natural gas infrastructure for hydrogen transport emerges as a cost-effective decarbonization solution. Hydrogen can be blended with natural gas or directly transported through the repurposed pipelines. The SafeH2 project aims to assess and predict hydrogen embrittlement susceptibility of gas grid steels, using experimental and computational methods. The available singular equipment facilitates a realistic testing in a high-pressure hydrogen atmosphere, enabling more reliable prediction of failures and the delimitation of working conditions. The project also explores optimal coating techniques for mitigating embrittlement in pipelines carrying pure gaseous H2. Therefore, SafeH2 contributes to a safer and more efficient hydrogen transport, fostering sustainable technologies and decarbonization goals.

Requirements of the candidate: Master and Doctorate in Materials Science or similar related to the scope of the project

Duration: 24 months

Gross monthly remuneration: 2537 euros

Application submission deadline: 04/01/2024

Documents to be provided:

- Copy of the NIF or Passport, the latter only in case of foreign citizens not resident in Spain.
- Curriculum vitae including detailed research activities.
- Doctorate certificate, issued by the university of origin.
- Degree and master certificates and academic transcripts.