

Position Description

1. General information

Position reference	IDOM-PF2: Advanced Decarbonisation Methods and Technologies in Iron and Steel
Research topic	Challenge existing decarbonization approaches across the steel value chain, and to explore advanced and innovative decarbonisation methods and technologies for iron and steel production aligned with current research lines at IDOM/Aurecon.
Supervisors	<ul style="list-style-type: none"> • Almudena Casado Chacón (IDOM) • Kalpesh Chinubhai Shah (IDOM) • Aaron Belbasis (AURECON)
Research areas	Decarbonisation, Energy efficiency, Materials Science, Hydrogen-based reduction processes
Employing entity	IDOM Consulting, Engineering and Architecture SAU
Seconding entity	AURECON Australasia PTY LTD
Position funded by	<ul style="list-style-type: none"> • COFUND, Marie Skłodowska-Curie Actions (MSCA), Horizon Europe, European Union • IDOM Consulting, Engineering and Architecture SAU • AURECON Australasia PTY LTD
Additional information	<ul style="list-style-type: none"> • https://www.idom.com/en/sector/metals-minerals/ • https://www.aurecongroup.com
Foreseen start date	September 2025
Gross annual salary	37,000 EUR plus complements defined below

2. Expected Candidate Profile

Educational qualifications:

- Advanced degree (PhD) in Materials Science and Engineering, Chemical Engineering, Environmental Engineering, Mechanical Engineering, Energy Engineering, Industrial Engineering, Metallurgy, or Sustainability Studies.

Research experience:

- Proven track record of research in decarbonisation technologies, preferably in the context of iron and steel production.
- Experience with hydrogen-based reduction processes and related technologies.

Communication:

- Strong ability to work collaboratively with multidisciplinary teams.
- Effective communication skills to present research findings to diverse stakeholders including industry partners, academic peers, and policymakers.

3. Employment Conditions

IDOM offers a 36-month (3-year) postdoctoral full employment contract to work at its facilities in Bilbao, Spain as part of the AuSpire researcher training program, co-funded by the European Commission under the MSCA COFUND scheme. The total working hours per week are 40 and there is a probation period of 6 months.

The remuneration, in line with the European Commission rules for Marie Skłodowska-Curie grant holders, will consist of a gross annual salary of 37,000 EUR. The definite amount to be received by the Postdoctoral Fellow is subject to Spanish tax legislation.

The position will be jointly supervised IDOM Consulting, Engineering and Architecture SAU (Employing Entity) and AURECON Australasia PTY LTD (Seconding Entity) where the Postdoctoral Fellow must undertake a secondment at the premises of the latter in Australia¹ for up to 12 months.

Additionally, the program includes annual in-person workshops at various locations across Spain, along with online training and networking activities.

Benefits include

- 4,000 EUR relocation for employment stipend to cover costs associated with taking up employment (flights, visa, insurance, etc.), to be distributed monthly as a top-up to the gross salary.²
- 9,000 EUR relocation for secondment stipend to cover compulsory project-related travel and accommodation costs (flights, visa, insurance, accommodation, etc.).²
- 3,000 EUR travel stipend to cover flights and accommodation for participating in compulsory AuSpire training and networking events in Spain over the 3 years.²
- 314 EUR monthly family allowance offered to candidates who meet the criteria.^{2 3}
- Access to all the necessary facilities and laboratories at IDOM and Aurecon.
- Access to research and training facilities inside the IDOM premises.
- 23 days of paid holiday leave.
- Spanish Social Security coverage.
- Sick leave complemented by IDOM so that workers get 100% of their salary.
- Government parental leave, complemented by IDOM with extra pay after birth.

¹ Secondment will take place at Aurecon facilities in either Melbourne, Sydney, Brisbane, or Perth. The decision will be based on the final research project and will be agreed upon at the time of the Postdoctoral Fellow's appointment.

² The definitive amount to be received by the Postdoctoral Fellow might be subject to Spanish tax legislation.

³ According to MSCA-COFUND requirements, Fellows with family obligations are entitled to a family allowance (i.e. persons linked to Postdoctoral Fellow by (i) marriage, or (ii) a relationship with equivalent status to a marriage recognised by the legislation of the country or region where this relationship was formalised; or (iii) dependent children who are actually being maintained by the Postdoctoral Fellow).

- Other benefits include a flexible timetable, remote working 1 day per week, summer timetable, tax breaks, long-term career path, free language classes (Spanish, English, French, German) and social activities for employees.
- Becoming a Marie Skłodowska-Curie fellow and be invited to join the [Marie Curie Alumni Association](#).

