

We are Hiring

Researcher in Industrial Process Modelling and Assessment

At HOLOSS, you will be involved in a variety of activities ranging from exploratory research to technology research, including technology transfer. You can develop your professional career through projects at the forefront, with a high level of commitment and responsibility in each project. We offer you the opportunity to participate in national and international conferences, and European (EU) and Portuguese (PT) projects with prestigious EU universities, research centres and industries.

MAJOR RESPONSIBILITIES

- Perform **detailed process calculations**, including mass and energy balances, thermodynamic and process performance calculations, supporting the design, assessment and scale-up of industrial technologies.
- Develop and apply rigorous process engineering models, including unit operation modelling, mass and energy balances and scale-up assumptions, **integrating physics-based, data-driven and hybrid approaches**.
- Apply advanced data analytics, statistical methods and AI-assisted approaches to process engineering data, developing **robust indicators**, visualisations using tools such as Tableau or R, and comparative assessments informing technology development and decision-making.
- Engineer, structure and analyse large-scale industrial process data across key sectors (e.g. energy, chemicals, materials, manufacturing), generating **high-resolution datasets** to support LCSA and TEA of technologies, value chains and industrial systems.
- Translate modelling results into **decision-ready outputs**, including technology benchmarks and trade-off analyses for industrial deployment and policy support.
- Produce **EU-grade technical outcomes** (project reports, scientific publications, white papers and briefings) with clear quantitative results, in-

depth technical discussion and explicitly stated implications and limitations.

- Make presentations at **national and international** workshops and conferences.
- Map **EU and PT funding opportunities**.
- Lead and prepare **R&D project proposals** (e.g. Horizon Europe).

REQUIREMENTS

- Bachelor's and Master's degrees in **chemical engineering, process engineering, energy engineering**, or closely related fields.
- Excellent command of **written and spoken English**.
- Proactive and results-driven, with a strong problem-solving mindset, a continuous learning attitude, and a **strong ability to work effectively in multidisciplinary teams**.
- Availability and willingness to **travel abroad** for meetings and events.

DESIRABLE:

- Experience with **process simulation and modelling tools** (e.g. SIMAPRO, Aspen Plus/HYSYS, MATLAB, COMSOL or equivalent).
- **Strong stakeholder communication skills**, including interaction with industrial partners and multidisciplinary teams.
- Familiarity with **EU policy** and funding frameworks, and the ability to align technical

analyses with client needs in European R&I or regulatory environments.

- Familiarity with **automation, scripting or AI-assisted workflows** to streamline data processing in consultancy-style environments.

OUR OFFER

- Full-time, **on-site position**, with availability to start as soon as possible.
- An attractive salary package, complemented with coaching, further **training**, and much more, rounds off our offer.
- Exposure to international conferences and professional forums within a collaborative, team-oriented environment that values **expertise, trust and shared responsibility**.

CONTACT

Please submit your application electronically to holoss@holoss.com. **The application must include: a cover letter, a curriculum vitae and a copy of relevant diplomas with grades.** Applications must be submitted in Portuguese or English as a single PDF by email, using the subject line "**IPMA – [your name]**". Only shortlisted candidates will be contacted.

HOLOSS is an equal opportunity employer committed to achieving diversity within the workforce and creating an inclusive working environment. Thus, we welcome applications from all qualified candidates, irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability, or other characteristics.