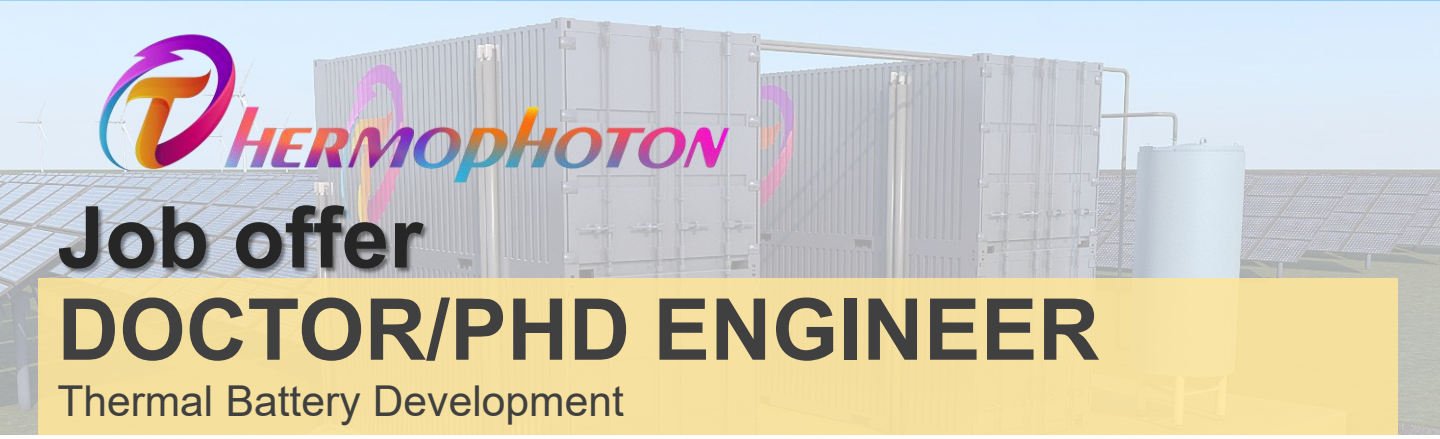


Job offer

DOCTOR/PHD ENGINEER

Thermal Battery Development

Thermophoton, spin-off of the Universidad Politécnica de Madrid (UPM), is developing an innovative **thermal battery for renewable energy storage and combined heat and power generation**, based on ultra-high-temperature phase-change storage and thermophotovoltaic conversion.

We are **looking for a Doctor/PhD in Engineering** to join our core technical team and take the lead, from a hands-on and applied perspective, in developing the thermal battery's heat-transfer systems from prototype to industrial-scale engineering.

RESPONSABILITIES

- **Lead development** of heat exchangers, thermosyphon-based systems, and heat-transfer subsystems for the thermal battery, from prototype to industrial-scale engineering.
- **Coordinate with industrial PhD candidates** on related work, integrating their results into the company's development plan. Take **technical leadership** to ensure project and funding milestones are met, even if academic progress is slower than required.
- Manage **supplier and engineering-company interactions** for design, sourcing, and manufacturing of thermal components.
- Support company **strategic decisions** (sales, pilots, funding) with the CEO and R&D manager.
- Develop knowledge of Spanish/EU regulatory requirements for high-temperature industrial systems and TES suppliers.
- Support the R&D and management team in **technical reporting and bilingual presentations** for funded projects.
- Contribute to **instrumentation and control definition** for prototype and demonstrator units.
- Contribute to the preparation of public and private **funding proposals.**

REQUIREMENTS

- **PhD in Mechanical, Industrial, Energy, Process, or Chemical Engineering**, or a related field.
- Doctoral research with hands-on **experimental work** (test rigs, prototypes, field measurements).
- Comfortable with **hand and power tools as well as computer-based modeling**.
- Confident interacting with suppliers, engineering companies, and consortium partners.
- **Spanish and English** at professional working level.
- Based in **Madrid**, or available to relocate.

PREFERRED QUALIFICATIONS

- Experience with heat exchangers, thermosyphons, two-phase heat transfer, or thermal energy storage.
- Familiarity with CFD or numerical heat-transfer tools (valued as a plus).
- Experience with mechanical design, manufacturing drawings, or workshop coordination.
- Familiarity with public-funding project execution (CDTI, EIC, Comunidad de Madrid, Horizon Europe).
- Interest in commercial/techno-economic aspects (supplier negotiation, cost estimation).

GENERAL CONDITIONS

- Location: Madrid, Spain.
- Start date: Immediate incorporation.
- Permanent contract, with opportunities to grow into leadership roles.
- Competitive salary. Exact terms will be discussed during the selection process according to experience.
- **Thermophoton does not discriminate on the basis of gender, religion, nationality or any other personal condition and particularly encourage women to apply to the position with no restrictions.**

APPLICATION

Interested candidates should send a motivation letter and CV to contact@thermophoton.com .