

Thermal management engineer position

About us

At Cooling Photonics, we are busy trying to change how we manage heat. We are a startup based in Barcelona, Spain, working on bringing innovative solutions to heat problems. We work at the intersection of disciplines such as photonics, nanotechnology, and materials engineering. We develop, manufacture, and commercialise innovative solutions for passive heat management that reduce energy consumption and carbon emissions. In day-to-day life, you will see our core values shining through our “Coolers.” The passion and dedication towards our mission will hit you the moment you walk through our doors - and there is no feeling like it. Our journey is not plain sailing - it requires proactive, flexible, and top performing individuals who are committed to the world sustainability and energy efficiency. But one thing is for sure - it is going to be a fun ride! Are you ready to change the world with us?

The role:

We are seeking a talented and ambitious Thermal management engineer to join our team and lead the Engineering team. The Engineering team will be responsible for transforming the needs and current solutions of our customers and potential customers into set ups that can be used to validate and to introduce our technology. Also, is the responsibility of the team to solve our customer’s heat problems with our knowledge. The role is expected to be elevated as technical manager.

Main Tasks and responsibilities:

We look for exceptional people and give them a level of responsibility, exposure and autonomy that will accelerate their career. You will be responsible for leading the current engineers; thermal simulation eng., electronical eng., mechanical eng. and other subcontractors for the accomplishment of the projects stated.

Responsibilities

- Oversee the entire project’s lifecycle, from initiation to closure, ensuring adherence to project management best practices and methodologies.
- Collaborate with cross-functional teams to define project scope, objectives, and deliverables, and establish project plans, schedules, and budgets.
- Provide leadership and support to project teams, ensuring effective communication, coordination, and collaboration to achieve project goals.
- Monitor project progress, identify risks and issues, and implement proactive measures to mitigate them, ensuring projects stay on track and within budget.
- Develop and maintain project documentation, including project plans, schedules, and status reports, and ensure timely and accurate reporting to stakeholders.
- Identify resource requirements and allocate resources appropriately to ensure project success.
- Manage stakeholder expectations and foster strong relationships with internal and external stakeholders, including clients, partners, and funding agencies.
- Support the preparation of applications for public funding, including researching funding opportunities, preparing project proposals, and coordinating with relevant departments.

- Stay up to date with industry trends, project management methodologies, and funding opportunities, and share best practices with the team to enhance project management capabilities.

Who you are:

We are looking for a highly motivated thermal management engineer, interested developing its career in a fast and dynamic environment. Knowledge of photonics, nanotech, renewable and clean energy, chemistry is a plus.

Minimum requirements

- Proven experience (2+ years) in project management, leading complex projects, and teams, preferably within the tech industry and startup environment.
- Experience in working with project management software.
- Particularly good understanding of thermal mechanisms and thermodynamics.
- Medium knowledge about electronics, measurement, and control systems.
- Good understanding of material properties and cooling technologies are a plus.
- You thrive in a collaborative environment involving different stakeholders and subject matter experts.
- Proven record of accomplishment for working well across teams and with external partners.
- You are a strong communicator and can explain complex issues in clear, persuasive language.

Competences:

- Excellent leadership and communication skills, with the ability to effectively collaborate with cross-functional teams and stakeholders at all levels.
- Strong analytical and problem-solving abilities, with a focus on driving results and delivering projects on time and within budget.
- Exceptional organizational skills and attention to detail, with the ability to prioritize and manage multiple projects simultaneously.
- You already have experience building electronics set ups (with Arduino and Raspberry).
- You have experience planning experiments, working with sensors, calibrations, and processing data.
- Thermal/Multiphysics 1D simulations with Open Modelica.
- 3D Simulation with other specific purpose software packages.
- Calculations of energy balances and thermal energy transfer (such as Comsol Multiphysics or Ansys).
- Highly motivated, have a transversal background and enjoy learning new skills.
- Self-motivated and willing to tackle the challenges of characterizing the thermal performance of our multi-functional films in relevant environments.
- Creative, collaborative and like to work in a high performant team to solve problems.
- Ability to meet deadlines with quality output deliverables.
- Flexible to accept new challenges in the future, and to evolve together with the changing R&D demands of our high-tech environment.
- Proactive and autonomous character
- Excellent team player with particularly good communication and reporting skills.

Summary of conditions:

- Full time work (40h/week)
- Contract Length: Permanent contract
- Competitive salary to be tailored to qualifications and demonstrated experience.
- Estimated Incorporation date: As soon as possible.
- 30-day holidays.
- Possibility of hybrid working.
- No suits! Unless it is Carnival or Halloween.

Please submit your CV in English to info@coolingphotonics.com with the subject “JO23007 Thermal management engineer application”

*At Cooling Photonics, we are committed to equal employment opportunity by regardless of race, colour, ancestry, religion, sex, national origin, sexual orientation, age, citizenship, marital status, disability, gender, gender identity or expression, or veteran status. We strive to be a more equal opportunity workplace.