

Postdoctoral Research Position in Nanotechnology and Additive Manufacturing for Next Generation of Liquid Heat Sinks

Are you passionate about nanotechnology, additive manufacturing and thermal engineering? Do you want to work in the next generation of liquid heat sinks for electronics cooling? Join us and become part of an exciting interdisciplinary research project that aims to shape the future of cooling technologies!

Location: [Universitat Jaume I](https://www.uji.es/), Castellón, Spain

Duration: 1 year, with the possibility of extension

Gross Salary: approx. 2400 €/month

Start Date: Flexible, ideally early 2025

Requirements:

- Ph.D. in Engineering, Physics, Materials Science, Nanotechnology, Chemistry or a related field, completed by the start date
- Proficiency in English required (Spanish is a plus but not mandatory)
- Experience in nanomaterials characterization, thermal management, or additive manufacturing is highly desirable.
- Strong skills in experimental design, data analysis, and scientific writing.

Responsibilities:

- Direct synthesis of nanofluids by laser ablation in liquids
- Characterize developed nanofluids to be used as HTF
- Develop and characterize nanoadditivated polymer filaments for 3D printing
- Fabricate custom heat sinks using advanced additive manufacturing
- Evaluate thermal performance of developed liquid heat sinks

What We Offer:

- State-of-the-art facilities, including access to advanced laser systems, 3D printers, and nanomaterial characterization tools
- Professional development opportunities, including training in cutting-edge research techniques and project management.
- Support for career progression, with potential for involvement in industry collaborations and further funding opportunities.
- Work-life balance, with a dynamic and international team close to the Mediterranean coast.

How to Apply: Please contact Prof. Leonor Hernández (lhernand@uji.es) and Dr. Carlos Doñate (cdonate@uji.es) by email: with your CV and a cover letter outlining your research interests and suitability for the position

