

Universidad Carlos III de Madrid (UC3M, www.uc3m.es)
invites applications to fill PhD positions MLPLUS-HT

Position description and objectives:

- **MLPLUS-HT: Development of a miniaturized Hall Thruster and experimental validation of its performance.**

This position involves the development of a miniaturized low power Hall Thruster and its neutralizer. The second task will be the characterization of its performance and understanding of main physical phenomena, by employing state-of-art plasma diagnostics. The contract will be funded under the regional research project, **MLPLUS-CM**. Selected candidates will join the Plasma and Space Propulsion Team (EP2, ep2.uc3m.es) at Universidad Carlos III de Madrid under the supervision of professor J. Navarro-Cavallé and with close collaboration with other researchers within the EP2 Team.

Requirements:

- Young MSc holder (and a total of 300 ECTS completed among BSc + MSc)
- Strong background in the following disciplines: Aerospace Engineering, Applied Mathematics, Scientific computing, Plasma Physics, Fluid Dynamics, Electromagnetism. Excellent candidates from other disciplines are also invited to apply.
- Previous design/laboratory experience is highly desirable.
- Outstanding academic record; critical & creative thinking.
- Team-working and communications skills; Previous international experience desirable
- Ability to deal independently and proactively with scientific and engineering challenges.
- Good proficiency in English (oral & written).

What we offer:

- Up to 4-year contract; starting annual gross salary 25 k€ plus productivity bonuses.
- Become part of a young, dynamic, highly qualified, collaborative team.
- Opportunity to travel to international conferences to present research activities.
- Opportunity to carry out a research internship abroad.
- Flexible working environment and schedule.

How to apply:

Interested candidates must send their applications to odrive@pa.uc3m.es indicating in the email subject the reference “**MLPLUS-HT**,” and attaching the following documents in pdf format:

- A motivation letter highlighting candidate’s skills, experience and research goals (max. 1 page).
- CV, including relevant education and work experience. Academic grade reports and % position in your class are valuable information for the evaluation.
- The contact information of up to two references (will be contacted during the hiring process)
- Sample of best works of the candidate (e.g. MSc thesis).

Application deadline is **June 15, 2025, but the position will be filled as soon as a suitable candidate is found**. Contracts will begin in September 2025, though an earlier start date can be arranged. Applications from women and minorities are particularly encouraged.

This contract is financed with funds from the Community of Madrid through the project “Integración de Consolidación de una Plataforma de MicroSatélite y Tecnologías para Investigación Científica Espacial Avanzada” with reference number TEC-2024/ TEC-263, and acronym MLPLUS-CM, within the modality of programmes of R&D activities in Technologies (2024), for the encouragement and promotion of research and technology transfer at the Universidad Carlos III de Madrid.