



Universidad Carlos III de Madrid (UC3M, www.uc3m.es) invites applications to fill PhD position ZARATHUSTRA-D5

Position description and objectives:

Your research work will consist in **developing fluid/kinetic/wave models to simulate and understand the physics of electrodeless plasma thrusters** and to help revolutionize their design. The contract will be funded by the recently awarded **ERC Starting Grant project ZARATHUSTRA** (Revolutionizing advanced electrodeless plasma thrusters for space transportation). The candidate will join the Space Propulsion and Plasmas Team (EP2, <http://ep2.uc3m.es/>) at Universidad Carlos III de Madrid, and collaborate closely with other researchers fully dedicated to the project under the supervision of Dr. M. Merino.

Minimum requirements:

- Young MSc holder (or MSc student with 60 ECTS passed at contract's signature)
- Strong background in the following disciplines: Aerospace Engineering, Plasma Physics, Fluid Dynamics, Applied Mathematics, and **Scientific computing**. Excellent candidates from other disciplines are also invited to apply.
- Outstanding academic record; critical & creative thinking.
- International experience; team-working and communications skills.
- Good proficiency in English (oral & written).
- Ability to deal independently and proactively with scientific and engineering challenges.

What we offer:

- 3-year contract (with potential 1-year extension); annual gross salary in the 20k – 22k € range.
- Become part of a young, dynamic, highly qualified, collaborative team.
- Flexible working environment and schedule.
- Opportunity to travel to international conferences to present research activities.
- Opportunity to carry out research internships abroad.
- Health coverage under the Spanish National Health System.

How to apply:

Interested candidates must send their applications to cbackenk@pa.uc3m.es indicating in the e-mail subject the reference "**ZARATHUSTRA-D5**," and attaching in pdf format the following documents:

- A motivation letter of experience, interests, and research goals (max. 1 page).
- CV, including relevant education, experience and knowledge.
- Sample of best works of the candidate
- The contact information of up to two references (will be contacted during the hiring process).

Submissions from female candidates are particularly encouraged. Reception of applications closes by **July 31, 2022**. Early applications are strongly encouraged, while later applications may be considered until the vacancy is occupied. Contract will begin in October 2022, though an earlier/later start date can be agreed.