



Tests & Validation Electronics Engineer – H / F – Permanent Position / CDI

****PRESENTATION****

ION-X is a start-up aiming to develop and commercialize a groundbreaking space propulsion technology for nano and micro-satellites.

The result of over 10 years of development within a leading-edge laboratory in this field, our technology offers exceptional performance and promises significant commercial opportunities. Our team of about twenty members has already conducted numerous tests on prototypes in our laboratory, confirming the disruptive potential of our technology and securing strong expressions of interest from European partners.

A first demonstration of our engine in orbit is scheduled for early 2025.

****DESCRIPTION****

We are looking for a **motivated and talented Electronics Test & Validation Engineer** to play a key role in validating and optimizing the electronic boards of our **disruptive ionic propulsion thruster**.

Joining a **dynamic and innovative** environment, you will collaborate closely with the **ION-X avionics team** and the rest of the technical teams based in Palaiseau. (In 2025, ION-X will relocate closer to Paris, remaining in the southern Paris area.)

Reporting to our Electronics & Embedded Software Lead, you will act as the bridge between the **R&D team** and the **Electronics & Software team**, ensuring smooth **integration and coordination** across disciplines.

****RESPONSIBILITIES****

- **Contribute to the design** of our avionics, ensuring **testability** from the early design phase.
- **Define and optimize** testing and validation setups in a **high-voltage environment**.
- **Participate in propulsion system tests** in our cleanroom, ensuring the reliability and compliance of the electronics.
- Execute and analyze tests on electronic boards, troubleshooting issues and proposing improvements.
- Document and investigate anomalies, contributing to continuous product enhancement.
- **Support the industrialization** of our electronic boards in collaboration with the production team and partners.
- Develop and automate test benches to improve validation efficiency.

****PROFILE REQUIRED****

You hold a **Master's degree (Bac +5) in Electronics or a related field**, with **2 to 3 years of professional experience** in the development, testing, and validation of embedded electronics for complex systems. You have:

- Solid understanding of **electronics/software interactions** in embedded systems.
- Strong expertise in **analog and digital circuit design**.
- Proficiency in **scripting** (Python) and **embedded development** (C, C++ ...).
- Familiarity with **test automation tools** (LabVIEW, Python, or similar).
- Experience with **test and measurement equipment** (oscilloscopes, logic analyzers, high-voltage test setups, etc.).
- Experience in **high-voltage environments** is a plus.

You are autonomous, detail-oriented, pragmatic, and proactive with a problem-solving mindset. You thrive in team environments and appreciate the opportunity to grow within a fast-paced and innovative environment.

****ROLE HIGHLIGHTS****

- Unique opportunity to contribute to the development of one of the most efficient space propulsion systems ever launched into orbit.
- Be part of an exciting entrepreneurial journey within a passionate team, based in one of the most advanced research hubs in France.
- A constant challenge with daily opportunities to learn, grow, and develop your skills.

To apply, please send your CV to:
Emmanuel Plier, COO
contact@ion-x.eu

