



Experienced Electronics Technician – Methods & Integration
Permanent Contract – Space Sector, M/F

COMPANY OVERVIEW

ION-X is a start-up dedicated to developing and commercializing a groundbreaking space propulsion technology for small satellites.

The result of over 10 years of research in a leading laboratory, our technology delivers exceptional performance and promises significant commercial opportunities. Our team of around twenty five employees has already conducted numerous tests on prototypes in our lab, confirming the disruptive potential of our technology. This has generated strong commercial interest from our European partners.

Following the success of our first in-orbit demonstration in 2025, the company aims to deliver one engine per month starting in 2026. We then plan to scale up production, targeting 50 engines per year by 2028 and up to 200 engines annually over the next five years.

****JOB DESCRIPTION****

As part of our growth, we are seeking an **Experienced Electronics Technician** (Permanent Contract). In a start-up environment, you will work closely with the electronics team and the engine assembly & integration team, based at our Palaiseau (France) offices.

Your primary responsibilities will involve the repair, assembly, and protection of electronic boards and sub-assemblies for space propulsion systems, in an environment demanding high quality, reliability, and traceability.

Reporting to our Director of Production & Industrialization, your main tasks will include:

Methods, Industrialization, and Continuous Improvement:

- Define and maintain procedures and work instructions for board repair, wiring, and potting.
- Standardize workshop practices and contribute to the selection of tools and equipment.
- Analyze quality issues and implement corrective and preventive actions.
- Provide DFM/DFR input during design reviews and support industrialization efforts.

Electronic Board Repair and Troubleshooting :

- Diagnose faults on PCB boards using measurement tools (multimeter, oscilloscope).
- Replace defective components (SMD, through-hole, connectors, integrated circuits) and perform fine soldering in compliance with IPC-A-610 standards and ESD procedures.
- Clean, inspect, and validate boards post-intervention.

Wiring and Electronic Assembly:

- Manufacture, modify, or repair cable harnesses and wiring assemblies based on schematics and wiring diagrams.
- Crimp, solder, and connect terminals and wires while adhering to color codes and applicable standards.
- Ensure mechanical and electrical quality (insulation, EMC protection, vibration resistance).
- Verify electrical continuity, absence of short circuits, and compliance of assemblies.

Potting & Electronic Encapsulation:

- Prepare components and boards for encapsulation (cleaning, protecting sensitive areas).
- Apply potting resins (epoxy, silicone, polyurethane) according to defined procedures.
- Ensure encapsulation quality: no bubbles, proper adhesion, and correct polymerization.
- Contribute to the continuous improvement of potting processes.

Quality Control and Documentation:

- Document field feedback to continuously improve methods, procedures, and electronic processes.
- Maintain traceability: intervention reports, non-conformities, updates to methods, and special processes (potting, complex repairs).
- Perform functional tests and compliance checks on equipment post-intervention.
- Ensure adherence to quality and safety standards (ISO 9001, IPC, ECSS, ESD) and participate in quality audits as the electronics methods expert.

****REQUIRED PROFILE****

Education :

- Associate's degree in Electronics, Digital Systems, or equivalent.

Expérience :

- **Minimum 5 years of experience** in board repair, wiring, or potting.
- Experience in a high-demand environment (space, aeronautics, defense, industrial electronics) is highly valued..

Technical Skills :

- Experience or strong interest in **electronics methods, industrialization**, and continuous improvement, with an understanding of quality, repeatability, and industrial robustness.
- Solid expertise in **electronic assembly and repair**: manual soldering (iron, hot air, including high voltage), reading schematics and wiring diagrams.
- Proficiency in testing and diagnostic tools (multimeter, oscilloscope) and **potting processes** and associated resins.
- Rigorous knowledge and application of **quality standards** (IPC-A-610, ECSS, ISO 9001, ESD rules), with the ability to work at the interface of Engineering/Production/Quality.

You are autonomous, organized, rigorous, pragmatic, proactive, and enjoy teamwork in a start-up and entrepreneurial environment.

****WHY JOIN US?****

- Unique opportunity to contribute to the development of one of the most efficient space propulsion systems ever orbited.
- Be part of an exciting entrepreneurial journey within a passionate team based in one of France's leading research institutions.
- Constant challenges with daily opportunities to learn, grow, and develop.

To apply, please send your resume to:

Emmanuel Plier, COO

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