Puzzle Medical
Devices

MONTREAL, Test Engineer, full-time, in-person

Puzzle Medical is developing a percutaneous heart pump for patients with advanced heart failure. The device's modular design allows for safe percutaneous implantation to support both renal and cardiac function through 4mm-pumps anchored in parallel in the descending aorta, allowing stability for patient mobility. To date, Puzzle Medical has successfully completed its first-in-human study with all patients experiencing improvements in cardiac and kidney function (2022); completed a Seed financing round (2021); built a strong Key Opinion Leaders committee (2021); received U.S. Food and Drug Administration (FDA) Breakthrough Device Designation (2021).

POSITION SUMMARY

Puzzle Medical is currently seeking a highly motivated *Test Engineer* with experience in embedded and circuit testing of medical devices electronic systems. The candidate will be responsible for the verification and validation activities within the Electrical Team. At Puzzle Medical, we value candidates with good autonomy, desire to learn and a great sense of organization.

ROLE AND RESPONSIBILITIES

- Develop testing procedures for the verification and validation activities of medical device software and electronics
- Create test cases, test suites and documentation for unit testing, integration/regression testing, and system-level testing
- Develop and design software quality controls
- Automate testing processes to streamline, optimize and facilitate testing efforts
- Create and execute test plans for existing and new features
- Evaluate software risks and perform risk assessments
- Participate in code reviews

QUALIFICATIONS

- Technical degree or Bachelor's degree in Electrical/Software Engineering or equivalent
- Experience in medical product development and regulatory requirements
- Experience with IEC 60601-1/-2 (electrical safety requirements)
- Experience with ISO-62304 (software life cycle processes)
- Experience with embedded software testing in C language
- French and English verbal and written communication skills

ASSETS

- Knowledge of class III medical devices
- Experience in design verification and validation of hardware and firmware
- Keen on developing new technologies and solving difficult problems
- Experience in Python programming language