



## Puzzle Medical

Devices

**Electronic engineer**, Full-time in-person, Montreal

### Position summary

Puzzle Medical is presently seeking a highly motivated *Electronic engineer*, with experience in product development, system integration and manufacturing of medical devices electronic systems. The successful candidate will undertake electrical engineering projects to production in a lab work environment. The *Electronic engineer* will work hands-on cooperatively with a cross-functional development team including members with clinical, business and technical expertise from all areas involved in product development through commercialization.

### Roles and responsibilities

- Manage the manufacturing of the controller for Class III medical device, incorporating electrical and mechanical components
  - Manage suppliers and allow the controller production to meet target timing
  - Work with suppliers to generate documentation, design verification and validation
  - Adapt the design as required for manufacturability and supply chain
- Elaboration and planification of electrical design verification and validation activities
  - Electrical safety testing
  - Long term running device testing
  - Firmware testing
- Design and develop controller systems for class III medical devices according to product requirements
  - PCB design
  - Embedded software/firmware development

### Requirements

- Technical degree or Bachelor's degree in Electrical Engineering or related Electronics discipline
- Experience in medical product development and regulatory requirements
- Strong understanding of electrical design integration with mechanical elements
- Understanding of design control, quality control and manufacturing in an ISO-13485 environment
- Prior experience with IEC 60601-1/-2 standards (electrical safety requirements)
- Technical capabilities such as PCB assembly, connector assembly, troubleshooting using basic instrumentation (oscilloscope, multimeter, power supply etc.)
- Embedded programming capabilities
- French and English verbal and written communication skills

### Assets

- Knowledge with class III medical devices
- Experience in manufacturer management
- Experience in design verification and validation of hardware and firmware
- Keen on developing new technologies and solving difficult problems

### Puzzle Medical description

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).

### **Want to join us ?**

Send your CV at [careers@puzzlemed.com](mailto:careers@puzzlemed.com) and we'll reach out shortly !