



Puzzle Medical
Devices

CFD Specialist, Full-time in-person, Montreal

Position summary

Puzzle Medical is presently seeking a highly motivated *CFD (Computational Fluid Dynamics) Specialist*. The successful candidate will undertake CFD projects for design optimizations, verifications and validations in close collaboration with Design Engineers. The *CFD Specialist* will also 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

- Perform CFD analysis to predict hemodynamic performance of various blood contacting implantable components and subsystems (velocity, pressures, shear stress, etc.).
- Produce clear and concise technical reports highlighting key simulation results needed for product optimization.
- Work in close collaboration with the design team for fast and effective iterative design work.
- Provide effective design solutions to optimize product functionality and reliability.
- Participate in technical design reviews.
- Support Test Engineers in developing and executing design verification experiments and testing methods.
- Maintain proper documentation.

Requirements

- Technical degree or Bachelor's degree in CFD or related discipline.
- Deep knowledge of fluid dynamics.
- English verbal and written communication skills.

Assets

- Knowledge of additional FEA related fields (magnetic simulation, heat transfer, structural analysis).
- Experience within the medical device industry.
- French verbal and written communication skills.

Puzzle Medical description

Puzzle Medical specializes in the development of a low-risk percutaneous heart pump for patients with advanced heart failure. Puzzle Medical empowers patients with a treatment option that increases accessibility, improves patient quality of life, and reduces hospitalizations. To date, Puzzle Medical has completed in-vivo preclinical implantations proving implantation, assembly, blood integrity preservation; completed a financing round from international VCs, clinicians, and private investors; built a strong Key Opinion Leaders committee; and received U.S. Food and Drug Administration (FDA) Breakthrough Device Designation.

Want to join us ?

Send your CV at careers@puzzlemed.com and we'll reach out shortly !