

Internship offer – R&D – Electronics and control

Location:

17 rue de Neuilly
92110 Clichy, France

Dates:

A period of 6 months during 2018

About the company:

Corwave is an early stage company focused on the development of innovative blood pumps. They are based on a disruptive technology, the wave membrane, which was developed by the CNRS and AMS R&D, and is protected by nine patent families. It mimics cardiac beating and preserves blood. Thanks to this technology, the Corwave VADs should limit the morbidities usually associated with those devices and improves the quality of life of those patients who suffer from chronic heart failure. More information at www.corwave.com.



Internship description:

The intern will work on the R&D department, and will assist the team in charge of the development of the controller (embedded system) managing the operation of the pump. This component is a critical part of the system and is being designed to comply with the applicable international medical devices standards (IEC 60601, ISO 14708, etc.).

The tasks will include varied aspects like:

- Mathematical / physical modelling (Matlab / Simulink)
- Prototyping of control and measurement cards
- Development of control algorithms
- LabView development
- In-silico and in-vitro tests
- Bibliographic review

Profile:

We are looking for motivated, dynamic and curious candidates. You will work in a multicultural environment that requires a good level of both written and oral English. Skills in the field of medical devices (acquired during studies or during another internship) will be highly appreciated but not discriminating. Knowledge in one or more of the following areas is also sought:

- Analog and digital electronics
- Programming of microcontrollers
- Numerical modelling
- Signal processing
- Biology, physiology

Contact:

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