



Hardware Engineer

ICONEUS is a Paris-based start-up. A growing team (currently 25 people) is dedicated to developing and commercializing a new ultrasound-based brain imaging modality (*functional ultrasound imaging* or fUS). This revolutionary method allows the visualization of brain activity with unprecedented spatio-temporal resolution and high sensitivity. Founded in 2016, ICONEUS aims to become a world leader in neuro-functional imaging.

ICONEUS offers a complete turnkey imaging system for preclinical research allowing the measurement of neuronal activation and connectivity. While maintaining its preclinical activities, ICONEUS also has ambitions to develop products dedicated to clinical research.

The ICONEUS solution relies on an ambitious device developed and integrated by the ICONEUS hardware team.

In order to complete its hardware team, ICONEUS is hiring a hardware engineer to enhance its capacity to develop new systems. Within a human scale team - 3 people - the hardware engineer will be in-house referent for electronics as well as contributing to the development hardware and mechanical design in general. The hardware engineer will accompany product development all along the lifecycle, from prototyping to certification and production.

Essential duties and responsibilities :

Development of ICONEUS electronic and hardware

- Drafting specifications for hardware components
- Design and realization of prototypes
- Managing hardware projects with subcontractors
- To perform validation of OEMs (mécanic, electronic and IT) using existing equipment or design of such equipment when required
- Nomenclature Management
- Team up with in-house referentes for mechanics, acoustic and software

Participation in certification of Iconeus solutions. Preclinical and medical devices.

- Electrical safety according to IEC 61010-1 or 60601-1
- EMC according to IEC 61326-1 or 60601-2
- Comply with ISO 13485:2016 quality management

We are an equal-opportunity employer and value diversity at our company. We do not discriminate on the basis of race, ethnicity, religion, gender, gender expression, social background, sexual orientation, and age or disability status. All are welcome.

Production

- Creation, implementation and maintenance of production and production help documentation (assembling, test procedure, checklist, tracking sheet)
- Occasionally support production and manufacturing when needed and participation to quality process
- Management of suppliers of parts for product manufacturing

Maintenance and customer support

- Occasionally support maintenance of devices in our workshop or at the customer site (worldwide travel)
- To discuss with customers to provide support if appropriate
- Implementation of customization if required by customers

Requirements :

-  Engineering degree or M2 equivalent in electrical engineering
-  Experience in analogic, numeric or power electronics
-  Use of CAD software
-  At least 2 years of experience in the field is desired
-  Experience with interfacing electronic hardwares using programming languages is desired (arduino, C++, python, ...)

Skills & profile

-  Good written and oral English, especially in electronic
-  Taste for small teams and start-up working environment
-  Being a driving force, making proposals and ability to argue
-  Willingness to work independently and to report
-  Good sense of the customer service
-  Committed to meeting team goals and deadlines
-  Attractiveness for technologies, innovation
-  Taste for self training and self maintain in technologies
-  Capacity to implement due process and the procedures but also be a trailblazer
-  Methodological and process focused mindset

This offer relates to an open-ended contract (CDI) based in Paris.

marc.gesnik@iconeus.com

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