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## Electronic Device Hardware Design Engineer

- **BSc or MSc**
- **32-40 uur/week**

**Enzyre, a spin-out of the Radboudumc, is located at the Novio Tech Campus in Nijmegen, The Netherlands. We are a rapidly growing company with a dynamic and inspiring SME culture. Our goal is to bring the laboratory to the patient by developing a bio-diagnostic point-of-care platform able to measure multiple biomarkers in just a few drops of blood by either the patient at home or nearby the patient by healthcare workers. We are looking for a software design engineer willing to work in a inspiring team in a flat organization with social impact. Are you also interested in point-of-care developments and are you curious about what it's like to work in the medtech industry? Then read on!**

Enzyre is building a point-of-care platform called the EnzySystem. The EnzySystem consists of three elements; EnzyPad, EnzyCard and EnzyApp. The EnzyCard is a small credit card-sized disease-specific disposable card containing all the reagents and controls to perform up to sixteen analysis reactions simultaneously. The EnzyPad is a handheld card-reader, whereas the complete EnzySystem is controlled by its software the EnzyApp.

The EnzySystem will be focused on blood coagulation, the current core expertise of the company. The technology can however be applied more broadly in collaboration with partners with expertise in different fields. The system is driven by user friendly EnzyApp software, based on underlying firmware for system control and signal detection and processing. Data is collected and transferred to a host, which is either a mobile phone or a laptop. This all is being monitored and serviced from web-based services.

### **Responsibilities**

Your responsibility will be the architectural hardware design and of the complete electronic and mechanical hardware environment of the EnzySystem, in close collaboration with the Enzyre team and external parties. You will start to build this core-competence within Enzyre and improve it to best-in-class (BIC) user experiences. The target field of use is both for the professional medical lab environment and for home use. High quality and robustness with good documentation will be part of the job to obtain the required market and government qualifications. Your tasks will be:

- Development and architectural hardware design of next generation EnzySystem.
- Optimization of the current electronic application boards with optical detection, temperature regulation, data acquisition and transfer of data to host (mobile phone or laptop) and web-based services using usb, Bluetooth, wifi protocols.
- Interpreting customer requirements and user needs.

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- Work with team on BIC user experiences and software robustness Drive and collaborate with external parties for outsourced tasks.
  - Develop and document design to international qualification requirements for medical devices.
  - Include lessons learned and best practices for continuously improvements.
  - Fully comply with environmental, safety and health rules of Enzyre.
  - Keeping up to date with developments in electronic hardware and mechanical design
  - Training of new engineers, coach and supervise students.
  - Job can be potential candidate to lead the application team for generating hardware and software.

#### **Required Education / Experience:**

- BSc or MSc in Electronic Engineering with focus on hardware design.
- Preferably more than 3 years of experience in relevant hardware design and testing.
- Trained and hands-on in the use of Labview, ALTIUM, 3D printing.
- Experience with Microsoft Office-applications as Outlook, Word, Excel, PowerPoint.
- Familiar with working with a QMS system / ISO13485 is a pré.

#### **Competencies:**

- Design of electronic application boards with clear examples from the past.
- Create specifications, design the circuits and select required components.
- Review economy, quality, manufacturability and reliability of the design.
- Validate and determine cost-effective test strategies, suitable for production.
- Ensures product- and project quality together with the project manager and other disciplines.
- Able to design hardware in multiple generations of products in a subsequent development steps together with backward software compatibility.
- Provide leadership during all phases of setting-up the device hardware.
- Hands-on experience in PCB Design and Layout (e.g. ALTIUM)
- Able to jointly cooperate with mechanical, software design engineers and chip designers.
- Organizational skills with strong attention to detail. Multitasking capabilities required.
- Pro-active in problem solving, debugging and focus on solutions.
- Structured and analytical workstyle.
- Pragmatic and hands-on approach for implementation of requests
- Self-starter, Implement improvements by yourself
- Ability to work as part of a multi-disciplinary team in several projects at once. Work collaboratively to improve the product by offering ideas and identify issues.
- Shown affinity with programming: able to interact with software design engineer. Programming in Python, C+ and web-based languages.
- Ability to work under pressure and meet deadlines.
- Ability to follow general instructions and procedures as provided and to improve them.

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- Customer oriented.
  - Clear and effective communication skills (oral and written) in English and preferably also in Dutch or willing to learn.

**We offer as conditions of employment:**

- A challenging position to start application software as a core-expertise in a fast growing start-up for point-of-care applications in the bio-diagnostics.
- Temporary 7-months contract with the intention of extension;
- **Salary level:**
  - Competitive salary.
  - We offer competitive salaries and additional benefits based on your performance, experience and qualification.
- Travel allowance or public transport reimbursement;
- **Holidays:** 25 holidays and holiday pay.
- **Place of employment:** Inspiring working place on the Novio Tech Campus in Nijmegen, The Netherlands. Part-time working from home possible.

**Are you the person we are looking for to join our fast growing research and development team?**

**Please apply before December 1st, 2022**

Send us a motivation letter and your personal resume ([hr@enzyre.com](mailto:hr@enzyre.com)).

For more information: Rachel Vestering ([Rachel@enzyre.com](mailto:Rachel@enzyre.com) / +31 246690036)

**Website:** [www.enzyre.com](http://www.enzyre.com)

**Recruitment agencies are asked not to respond to this job posting**