



HEIMDALL POWER

Sensor Hardware Engineer

THE POSITION: As a Sensor Hardware Engineer, you design and build the systems that are the heart of Heimdall Power's business. You will be responsible for developing the sensing system from the lowest level of circuit design, all the way through to high volume manufacturing. Your work has the potential to shape the digitization of our electrical grids.

WHO WE ARE: Heimdall Power is a young Norwegian technology company established in 2016. We offer a rapid transition to fully digitized grid assets through low-cost, easy to install, self-powered sensors that provide input to advanced models and algorithms. Our goal is to use machine learning to predict line faults before they happen, minimize blackouts and improve maintenance efficiency. With better capacity control, energy distribution can be optimized. Heimdall's technology has the potential to increase average capacity of the grid by more than 25 percent. The electrical grid is the largest man-made machine - It spans the globe, providing structure, balance and life to our energy system. It is essential infrastructure to enable a sustainable, green energy future. Heimdall Power is backed by established VCs and industrial partners. This is your chance to be part of an exciting journey towards a sustainable future.

WE ARE LOOKING FOR: Heimdall Power is seeking a Sensor Hardware Engineer to design and develop the next generation of sensing devices and sensing systems for Heimdall's products. You will be part of a highly skilled multi-disciplinary dynamic organization creating and commercializing new technologies that enable us to deliver on our mission to digitize the electrical grid.

Responsibilities:

- Define the hardware product roadmap.
- Work with a multidisciplinary team to develop the requirements, specifications and algorithms to meet product needs and user experience.
- Work with sensor suppliers to get required information, build test benches, including test board development, sensor readout driver development and characterization report generation.
- Evaluate the performance of different sensors like temperature, IMU, Optical, GPS, and develop methods to measure specific high voltage parameters like voltage and amperage

- Develop and communicate detailed development plans with aggressive timelines and key milestones to ensure the team and the company are focused on achieving the goals and dates.

Your qualifications:

- Minimum MSc degree in Electrical Engineering, Physics, Mechanical Engineering, Computer Science, or related field or equivalent practical experience.
- 5+ years of experience working in the field of sensor devices
- Experience with various sensing technologies, from working principle to commercially available solutions.
- Experience with system prototyping including deep understanding of reliability, failure modes and compliance to standards
- Understanding of sensor data analysis (accuracy, resolution, maximum range, etc.) and how to verify these specifications
- Ability to develop software/firmware based on vendor provided drivers
- Preferably experience from high voltage engineering and power systems.

For further information about the role, please contact Knut Sandven on email **knut@heimdallpower.com**