LIFECARE

Lifecare AS (www.lifecare.no) is a Norwegian company listed on the Oslo Stock Exchange, with operations in Germany (Rhine-Main Area and Southwest Germany), that develops advanced sensor technology suitable for medical and lifestyle/sports-tech devices based om MEMS and NEMS technologies.

Lifecare's head office is in Bergen, Norway, while the company's R&D activities are organized in subsidiaries in Germany. The company is currently in the process to establish a significant operational infrastructure for R&D and manufacturing of nanoscale biosensors in Mainz and Reutlingen. You will accompany this process in a responsible position.

For our development site in Reutlingen, Germany, we have an open position as:

Technical research scientist / electrical engineer for Biomedical MEMS

These tasks await you:
- Taking responsibility for the measurement techniques, mainly, programming and interfacing the readout devices at our facilities in Germany (Reutlingen).
- Investigating low noise instrumentation/devices, implementing, and testing them on sensors.
- Hardware oriented programming.
- Interfacing and programming microcontrollers.
- Ensuring that devices/components are in accordance with health and safety regulations.
- Optimizing sensor performance via simulation.
- Documentation, communication, and presentation of project results.
- Close cooperation with internal and external expert teams, domestic and foreign institutes, partners, and customers.

Required Skills/Abilities:
- Thorough understanding of electronics principles and design for MEMS development.
- Programming skills related to typical lab equipment and their interfacing using Python programming.
- Electrical and electromechanical measurement characterization technologies.
- Knowledge of engineering simulation tools such as Ansys, COMSOL Multiphysics is a plus but not prerequisite.
- Detail-oriented and organized.
- Excellent problem-solving ability.
- Communication, assertiveness, and teamwork skills.

- Hands-on mentality, persistence, independent working style, analytical thinking and creativity.
- Pleasure and willingness to familiarize yourself with new topics.
- Very good written and spoken German and English skills.

We offer:
- Opportunity to shape and develop cutting-edge nano sensors and MEMS for biomedical applications.
- An attractive compensation package beyond standard industry compensations.
- Flexible work time and partial working from home-
- Other compensations according to German standards (healthcare, vacation days, capital-forming benefits, etc.).

Please send your full application (incl. salary expectation) to Dr. Boris Stamm
Tel.: +491703117392, mail: boris.stamm@lifecare.no, web: www.lifecare.no

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Lifecare's main project is to bring microsensors for continuous long-term glucose measurement (Sencell) to the market and thereby facilitate a simpler everyday life for people with diabetes.

Sencell is a microsensor based on Lifecare's patented and proprietary Osmotic Pressure Sensing Technology and a candidate to become the world's smallest Continuous Glucose Monitoring device. Sencell is assembled based on wafer produced micro-chips including sensing chambers filled with Lifecare's proprietary glucose-reactive chemical composition, as well as Nano Tunnelling Granular spring sensing-elements and micro-electronics printed on its surface. By use of modified Scanning Electron Microscopes for nano-printing and spotting devices for nano-precision fluid handling, the Sencell device is planned to be produced at the size of a grain of rice and is expected to have a lifespan of 3-6 months as a minimum.

The core technical development is envisioned to lead to further product segments with relatively small efforts and adaptations. The company's patented sensor technology is also a key component in an EU-funded research project for the development of an artificial pancreas (www.forgetdiabetes.eu). Lifecare aims to expand the technology's scope of application in medical and lifestyle-related product developments, in addition to linking other innovative technology to the company.