



Sensor Expert for Remote, Part-Time Work

Company Overview

Sparv Embedded AB specializes in developing hardware and software for innovative atmospheric measurements. Utilizing weather balloons and UAVs, we integrate a range of in-situ sensors, as well as create our own temperature and humidity sensors. We strive to minimize the size, weight, and power consumption of our products. Our main clients are universities in need of sensor solutions for environmental research. For more information, visit <http://sparvembedded.com>.

Role & Responsibilities

We're looking to improve and quantify the data quality of our sensors across various projects, from ground level up to altitudes of 10,000 meters. Parameters include temperature, humidity, pressure and GPS readings. Your tasks will include calibration procedures, solar radiation correction algorithms and uncertainty estimations. Sensor fusion is also an area of interest.

Who You Are

Background: You likely have a physics degree followed by experience in academia or industry, specifically in developing or evaluating sensor solutions. Experience in atmospheric research field projects would be ideal.

Subject knowledge: Proficiency in signal processing, statistics, thermodynamics and metrology is essential. Knowledge of analog electronics, meteorology or Python programming is a plus but not required.

Skills: You're capable of structuring scientific investigations and writing scientifically sound reports. You will take the lead in formulating and driving these projects, although the practical experiments will generally be executed by others.

What You Will Do

- Advise our product development from a metrological perspective
- Advise sensor calibration methodology
- Design experiments for sensor characterization and analyze their outcomes
- Author scientific reports

Work Arrangement

The position is remote with occasional teleconferences or on-site in Linköping, Sweden. Currently, we are looking at a 20-50% work commitment for a year or more. We are open to combining the work with a related academic position.

How to Apply

Can you guide us to accuracy, precision and repeatability? Please reach out to Anders at anders@sparvembedded.com.