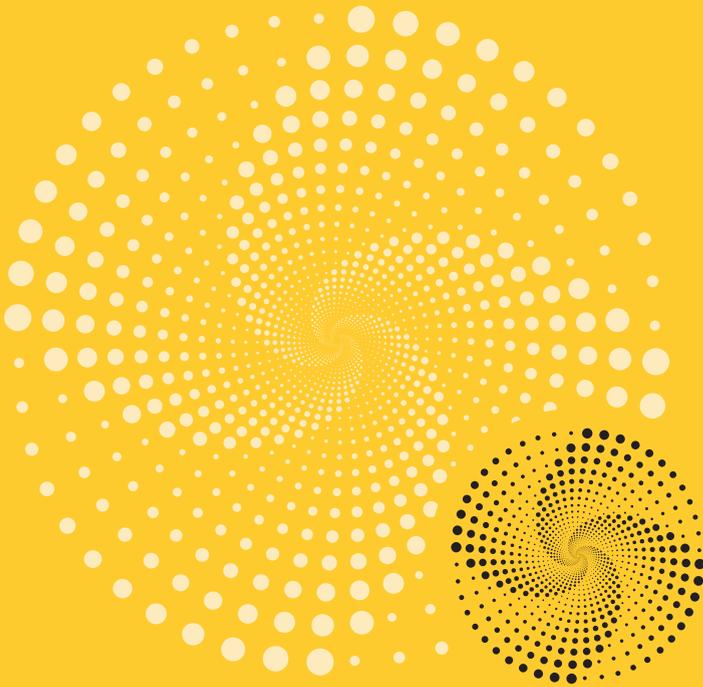


# JOB?

## Remote Sensing Scientist



# Air who?

Air Profile GmbH is a seven-year-old start-up in the field of renewable energies. We have started to set new standards within remote measurement technology.

LiDAR systems measure with the help of laser beams. With a diverse team from a wide range of disciplines, we have developed a globally unique LiDAR method for precise wind measurement up to a height of 300m. The method has been patented since March 2021. Internationalisation is in full swing.

We went public with our vision and the immense potential of the technology for wind energy and other industries several years ago. Numerous national and international awards attest to the innovative character of our development work. Important market players already rate our solution as an outstanding development for the future of global wind energy.

Precise measurement data are tremendously important for the global wind and weather market and make an active contribution to the energy transition. We want you to be part of the development team because we have a lot planned for the coming years. The market launch of our first product is scheduled for 2023. In 2024 and 2025, we plan to use the technology for further products to, for example, improve early warning systems for disasters (forest fires, tornadoes, etc.), make aviation safer (helicopter and airport monitoring), make buildings smarter and enable urban autonomous air traffic.

You see, there is far more to our innovation than meets the eye.

## Job title

Development Engineer for LiDAR Sensors  
Remote Sensing Scientist - Wind LiDAR  
Measurement Technician for LiDAR Sensors

## Employment relationship

full-time (open-ended)

## Date of employment

immediate start

## Working hours

40 hours per week.

## Working language

fluent English /German (B2)/ further language skills desired

## Place of employment

Kassel

## Requirements

### Competences

### Qualifications

### Knowledge

### Skill

## Field of Study & Educational Qualification

- Completed scientific university studies with a diploma or master's degree in photonics / optics / physics / electrical engineering / remote sensing physics or a related field.
- Or evidence of relevant work experience (academic or industrial; approx. 1 - 3 years) in an opto-mechanical environment.

## Expertise (Must Haves)

- Knowledge of physics in the field of atmospheric remote sensing, working experience with LiDAR systems is an advantage.
- Experience in experimental research in two or more of the following areas: metrology, LiDAR, optical signal processing, advanced imaging techniques, opto-mechanics, optics or laser technology.
- Knowledge and experience in setting up and handling opto-electronic measurement setups.
- Experience in scientific and technical writing or oral communication of research results.

## Expertise (Nice-2-Haves)

- Scientific publications in peer-reviewed journals, patents or presentations at technical conferences.
- Ability to actively and significantly contribute to the development of an innovative and externally funded research or development programme.

- Successfully completed and documented research or development projects.
- Experience working with technical and experimental computer software (e.g. MATLAB, C++, Python or Java).
- Expertise in data analysis and algorithm development in Python or MATLAB, C, C++, Java.
- Practical experience in optical design (Zemax, Code V or Light-Trans) is an advantage.
- Experience in conducting practical experimental research, including knowledge of electronics and optics.
- Strong ability to work successfully in a team in technical projects.

## Key qualifications

- Technical creativity, solution-oriented thinking and a high level of perceptiveness
- Ability to work independently in a scientific environment.
- Ability to explore potential technologies and collaborate with suppliers on prototype development.
- Self-motivated, independent and committed. Excellent communication skills.- Understanding of laser and product safety compliance.

## Detailed job description and tasks

We are currently looking for a Remote Sensing Scientist with experience working with atmospheric remote sensing LiDARs or similar systems to join our team of young engineers and industry professionals, which is tasked with driving innovation within the wind energy sector.

The Remote Sensing Scientist - Wind LiDAR is responsible for the development, maintenance, verification, validation, and monitoring of products related to our patented Wind LiDAR.

### Main tasks

- Participation in the design of complex laser systems and opto-mechanical instruments
- Independent assumption of design work within the entire design cycle research & development area
- Participation in or technical management of innovative funding projects for GreenTech

### Secondary tasks

- Development of advanced LiDAR algorithms and applications
- Development of scientific application software and analysis tools
- Cost and function optimisation of existing products within improvement projects as well as product maintenance and change management
- Close cooperation and coordination with colleagues from the fields of design, physics, electronics, production, product management and purchasing

## What we offer you

- A varied job in which you design products in a team, construct them yourself, build prototypes and put them into operation, and continue to accompany them throughout the product's life cycle.
- Challenging and varied engineering work in interdisciplinary development teams
- Creative space, room for manoeuvre and room for innovation in a high-tech environment
- Very good opportunities for further training and development
- Short decision-making processes and a healthy high degree of personal responsibility
- A community-oriented corporate culture in a familiar working atmosphere with regular employee events

## Important

Anyone who has the initiative, the knowledge, the know-how, the energy and the courage is allowed to make independent decisions with us. It is in your hands to develop into a leadership role. We will support you on your individual way.



**Bitte sende deinen Lebenslauf an**  
[bewerbung@air-profile.com](mailto:bewerbung@air-profile.com)

Ein persönliches Gespräch ist uns wichtiger als blanke Daten. Deine Referenzschreiben, Dokumente und Belege kannst du gern zum anschließenden Vorstellungsgespräch (online oder in Kassel) mitbringen. Wir freuen uns auf den Menschen hinter den Zahlen.

