

HARDWARE ENGINEER

About Phenospex

Passionate to make agriculture more sustainable, Phenospex was founded in 2011. We believe that digitalization will be the major driver in this process. That's why we develop cutting edge sensor- and software solutions that capture crop data and translate it into actionable information. We are a leading and multidisciplinary team that works at the intersection of technology, plant biology and agriculture and we empower seed- and crop protection companies and indoor farms around the world in transforming their phenotyping processes into digital, agile and efficient development pipelines.

Be part of Phenospex and amplify the impact of millions of people and accelerate the transition towards sustainable agriculture.

What you'll be doing ...

Your input is essential to the success of our ambitious R&D projects: after an intensive personal onboarding program you will be responsible for designing, developing, modifying, adapting and debugging the electrical and optical components for our products. You will review the user requirements and propose technical concepts and work on short term projects, as required.

In more detail, you will:

- provide PCB designs and prototypes that solve a specific task defined by the product manager
- develop microcontroller firmware for new or existing PCBs that deliver the required results
- maintain and improve the VHDL code for our signal processing FPGAs
- manufacture (internally or externally) PCB prototypes after collecting all relevant input for the next iteration
- document design decision during the development process
- troubleshoot, debug and upgrade existing PCBs, microcontroller firmware packages
- gather and evaluate feedback from service engineers, production and product managers
- analyze requirements (including design for manufacturing), collect test results and integrate these into the development
- perform all relevant quality testing on hardware components before release from R&D into production
- create technical documentation for reference and reporting that also allow a proper handover from R&D into production
- be responsible for re-qualifying components that may have changed due to external factors
- support the operations department in designing and writing production and test processes and instructions
- actively seek information on new technology trends in the relevant domain (PCB design, electrical components) and apply during the design process
- complete special assignments as requested
- ensure compliance with safety and quality standards
- operate in line with our company [values](#)

What we're looking for...

You are highly motivated and passionate about hardware design and development and have completed an Engineering degree, followed by some professional experience. You are a troubleshooter who pays attention to detail and is open to learn new programming languages and technologies. You feel at home and are excited to work in a dynamic, flexible and collaborative small team environment.

You'll need to have:

- Bachelor's or Master's degree in Electrical Engineering, Optical Engineering or a related field
- at least 1-3 years' experience as a Hardware Engineer or in a similar role
- in-depth knowledge of PCB design software (Eagle, Altium Designer) and microcontrollers
- knowledge about optics and signal processing
- excellent verbal and written English communication and documentation skills
- a valid EU work permit and driver's license

Even better if you have:

- good VHDL programming skills
- previous experience with optical sensors, cameras, and related electronics

Why choose us?

- we have an open and informal culture where you get a lot of freedom and responsibility
- we promote your participation and offer lots of room for personal growth
- you will be inspired by a great group of ambitious international people
- you have the opportunity to work in a mission-driven team that makes a positive impact on the planet with an innovative and exciting digital phenotyping technology
- our salary and benefits package is very fair and competitive and includes a variable pay based on the achievement of goals
- you get 6 weeks of paid vacation each year and have flexible working hours in a hybrid work location
- team events, table soccer tournaments, free drinks, fruit, sweet and more fun stuff top it off

Would you like to learn more about this? Then please check out our company website www.phenospex.com/careers/ and apply to our HR Manager Alexandra Müller via e-mail or phone: a.mueller@phenospex.com / +31 6 1536 1589