Optomechatronic engineer

Location: Amsterdam
Reports to CTO
Starting date: 1st of April 2021
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Company background
Confocal.nl aims to change the microscopy industry with a confocal microscope based on the re-scan invention: the Re-scan Confocal Microscope (RCM). RCM combines the super-resolution capability with higher sensitivity than most confocal microscopes. The re-scan technology was developed at the Swammerdam Institute for Life Sciences of the University of Amsterdam. This innovative technology converts a standard microscope into a super-resolution microscope for three-dimensional confocal imaging. It is available as a highly affordable and customizable device, which is ideal for small labs with specific interests in biomedical research but also as a working-horse at microscopy facilities to increase the imaging capacity. The simple technical design and open-architecture make the system platform- and software independent which allows plug-and-play upgrading of any standard fluorescence microscopes.

Confocal.nl started as a company in 2016 and has grown now to a team consisting of 10 highly skilled specialists, engineers and business developers. At the moment there is a need to expand the technical team with an optomechatronic engineer in order to speed up the design and introduction of new products. This position is a good career opportunity for a creative and experienced optomechatronic engineer.

Responsibilities
As an optomechatronic engineer you will contribute to the design of new products: from making the first sketches of ideas, towards design, development, construction and testing of prototypes up to building and testing the final product that will be introduced into the market. For good product development it will be important to easily interact and align with the technical team members, but also good communication with customers and members of the commercial team will be crucial. Products that will be developed will cover the field of optical microscopy techniques and will be based on the re-scan technology.

Profile
- Master of Science in physics, optomechatronics or equivalent.
- At least a few years working experience with optical systems.
- Strong both theoretical and practical skills.
- Independent, creative, pragmatic and entrepreneurial mindset.
- Familiar with:
  - design of optomechatronic systems
  - systems engineering methodology/ V-model
  - optical design software like Zemax
  - microscopy technology is a plus

Offer
- A very interesting challenge for an experienced optomechatronic engineer looking for the challenge to create new products that can be used in advanced biomedical research.
- An attractive package of salary and performance award
- Working for an innovative, growing and focused organization with a clear goal: bringing innovative microscopy to the market.