

We are a young, dynamic Delft start-up, focused on providing protection without compromise through innovative body armour and impact protection products. Be it a martial artist fighting with heavy impact weapons or a hockey star on the field, a soldier serving in the military or an operator working heavy machinery on the factory floor, we are pioneering the protection technology to help these users effortlessly and safely carry out their tasks, and in style.

Currently we are working on bringing our first product, the ProGauntlet, a protective hand exoskeleton, to market. In the process, we are pushing the boundaries of not only impact protection technology in body armour, but also in smart-agile manufacturing in order to deliver high-quality customized products to users that 'fit like a glove'!

We are currently recruiting a:

Full-time Research Engineer (Product R&D)

for our Product R&D team.

The Product R&D team at CrossGuard is responsible for ensuring that we are at the forefront of Impact Protection Technology, Ultra personalization of products and High-quality user experience throughout a product lifecycle. Currently we are working on developing a sizing system that allows users to provide their hand data in order to find a fit with the ProGauntlet, as well as allow for modifications to the part sizes based on user data (personalization) in future versions of the ProGauntlet. We are also exploring new exciting product opportunities in Hockey, Defence and other Martial arts applications. To assist in these activities, we are looking for a bright, motivated, creative design engineer who not only enjoys the conceptualization of new product ideas but also loves going into detailed data research and analysis to design the supporting systems for the design/engineering/sale of such products.

Could this be you?

Job Overview

In this role you will report to the Head of Product Development.

As a Product Research engineer you will act as a pioneer at CrossGuard, inspiring and motivating the product development team with your creativity and drive for innovation. You will be working closely with product management in helping define new product concepts based on user research and market opportunities. You will also collaborate with product/production design engineers at CrossGuard as well as external stakeholders (TU Delft, etc.) to identify new research topics in support of product development, going through study, analysis, design and testing phases, culminating in proofs-of-concept for new products/systems.

Primary Responsibilities

- Develop and commercialize new products and technologies and maintain technical leadership in impact protection and body armour products.
- Design of methodologies/tools for user body measurements' collection and data analytics to support product sizes' definition and customer fitting.
- Undertake fundamental research into design principles, customization capabilities via parametric CAD, custom configurators, etc. for existing and new products.

Daily and Monthly Duties

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Skills and Qualifications

- Master's degree in mechanical engineering/industrial design or related fields.
- A solid grasp of data analysis and research methodologies, with experience in applicable tools (Excel, Matlab, Simulink, etc.).
- Formal training/Demonstrated experience with CAD software (e.g. AutoCAD, Solidworks, OnShape, Pro/E).
- Affinity to prototyping and getting hands dirty in order to iterate quickly and improve designs.
- Ability to think outside the box.
- Motivated and driven, and capable of working with minimal supervision.

Preferred Qualifications

- Work experience in R&D function in a company or Scientific Research in an academic setting.
- Experience with or affinity for 3D Printing.
- Prior experience in design of injection moulded/cast components is a plus.
- Prior experience/knowledge in Biomechanics is a plus.

Send your application, including CV and motivation letter to: recruitment@crossguard.eu.
For inquiries, you may contact: Sachin Bijadi, +31617339348.

Note: Only personal replies by candidates will be considered.