



MAKE AN IMPACT WITH A PLACEMENT IN
RESPIRATORY PROTECTION

Apply before 31 March 2024

Job title:	Student Design Engineer
Reporting to:	Senior Design Engineer
Location:	Melksham, Wiltshire
Duration:	1 year
Starting:	July / August 2024

Why Avon Protection?

We make products that are trusted to protect the world's militaries and first responders.

Our dedicated teams achieve this by developing mission-critical solutions that enhance our customers' performance, efficiency and capability, whilst providing ever-increasing levels of protection.

With a portfolio that includes respiratory and head protection systems, we are renowned for our innovative thinking and our steadfast approach to manufacturing unrivalled products.

We're proud of what we do and to continue protecting people in the most hostile of environments, we need exceptional and talented people in our teams who believe in our purpose and show passion for delivering value to all our stakeholders. Are you one of them? If so, we want to hear from you. In return, we can offer you a great place to work, a competitive salary and benefits, and the resources and support to develop as a professional.

For examples of our work and products check out:

[Website](#) | [LinkedIn](#) | [Instagram](#) | [YouTube](#) | [Twitter](#) | [Facebook](#)

Scope of the Function

We have an exciting opportunity for a Student Design Engineer to join our dynamic team and play a pivotal role in shaping the future of respiratory protection. Based at our design & manufacturing facility in Melksham, Wiltshire, you will become an integral part of the Product Development team specialising in innovative respiratory solutions. As a key member of the team you will be actively participating in ongoing development projects, contributing to the design and enhancement of designated products.

Collaboration will be at the heart of your role, as you engage with colleagues across our UK and US offices. Your responsibilities will include working on projects within specified budgets and timelines and ensuring seamless coordination between teams for the successful execution of innovative ideas. This position offers a unique vantage point, allowing you to immerse yourself in product development, human centred design and design validation testing. Furthermore, you'll have the invaluable opportunity to expand your expertise through exposure to on-site manufacturing processes, enriching your knowledge base in this area.

Relationships

Outside the product development team the role will involve engagement with a wide range of individuals across the business, including project managers, quality assurance teams, sales, marketing and production operations.

External to the business you will engage with suppliers, test laboratories and consultants

Mentoring: Throughout the year you will have the benefit of a mentor relationship with a member of the product development team. This guidance from an industry professional will benefit your personal development with help in setting and working towards development goals and support you in navigating a professional working environment.

Main Responsibilities

- To assist product Design Engineers in the development of new concepts and assigned products in accordance with customer requirements and project objectives, following the Avon Protection new product development process.
- Working throughout the product lifecycle from concept generation to prototyping, design validation testing, production readiness, product certification and market launch.
- To maintain a high standard of communication with members of other teams, functional managers, customers and suppliers in the pursuit of project and timing objectives.
- To undertake individually assigned projects and complete within allocated timescales.
- To improve skills in product / mechanical engineering by learning techniques, materials engineering, problem analysis, benchmarking and CAD analysis.
- To become proficient in the methods and techniques needed to produce high quality designs of products, sub-components and assemblies, which have been well considered for efficient manufacture.
- To learn how to develop appropriate design specifications and test criteria in accordance with the Avon Protection quality systems.
- To increase awareness and understanding of contemporary PPE technology both within Avon Protection and industry wide.
- To complete all allocated projects assigned by the Senior Design Engineer.

Requirements

Education:

Undergraduate in Industrial / Product Design or similar
A Levels or equivalent in relevant subjects

Essential:

Eye for detail
Professional working manner
3D CAD experience
Working knowledge of PC based word processor and spread sheets.

Desirable:

Hands on model making.
Strong sketching and visual communication
Prototype testing / validation
SolidWorks 3D CAD experience
Understanding of DFM

How to Apply

Please email your cover letter, CV and work examples (attachments no larger than 10Mb) to Henry Chadwick, Senior Design Engineer: Henry.Chadwick@avon-protection.com before midnight on the closing date.

Closing date: 31st March 2024