



# Design for showcasing ceramic matrix composites products at exhibition and to customers

## About Arceon

At Arceon, we are developing a special type of composite materials called Ceramic Matrix Composites. Instead of a polymer matrix, we use a ceramic one, which results in cutting edge composite materials and structures exhibiting unique properties such as thermal stability from cryogenic to ultra-high temperatures, extremely low thermal expansion, lightweight, corrosion resistance, high specific strength, and no detectable particle release. We are currently active in developing products mainly for Space and Defence markets. Typical products that we are developing are rocket nozzles, leading edges, stable airframes, and nose caps.

## Objective

As an Integrated Product Design Intern your task is to design innovative and impactful ways to showcase CMC products at exhibitions and to potential customers at our facilities. The goal is to create an engaging experience that highlights and explains the unique properties and benefits of CMCs to a wide range of audiences, be it a technical expert or a layman. The design should be able to grab the attention of the user and make them ask questions regarding the product and its use case. The starting date of the assignment will be from July 1<sup>st</sup> 2024 and it will last for at least 3 months.

## Your task and responsibilities

### Research and Analysis:

- Investigate existing CMC products and their exhibition strategies.
- Understand the target audience (industry professionals, potential buyers, general public).
- Analyse successful exhibition designs from related fields (e.g., materials science, aerospace).

### Concept Development:

- Brainstorm creative ideas for showcasing CMC products.
- Consider interactive displays, visual storytelling, and hands-on experiences.
- Explore how to communicate technical information effectively.

### Prototyping and Testing:

- Develop low-fidelity prototypes of exhibition concepts.
- Test prototypes with potential users to gather feedback.
- Iterate based on feedback and feasibility.

### Materials and Aesthetics:

- Select appropriate materials for exhibition elements (displays, signage, interactive components).
- Ensure that the design aligns with the premium quality of CMC products.
- Balance aesthetics with functionality.

### Collaboration:

- Work closely with the marketing team to align the exhibition design with the brand image.
- Collaborate with engineers and materials scientists to accurately represent CMC properties.

Interested, please send us an email at [hr@arceon.nl](mailto:hr@arceon.nl) and we can plan a visit to our lab and showcase the product portfolio.