

Position Name: Waterslide Product Designer

Job Description:

Overview: Join ProSlide's Product Development Team in a highly technical, hands-on product design role focused on the development of complex 3D surface geometry for large-scale fiberglass (FRP) water ride systems. This position is centered on advanced CAD surface modeling and manufacturable design, with responsibility for translating complex ride geometries into production-ready components that meet performance, safety, and fabrication requirements. This position requires strong surface modeling expertise and a deep understanding of how designs are built in the real world. Your work will directly contribute to attractions enjoyed by millions of guests worldwide, with real-world impact on safety, performance, and guest experience.

Key Responsibilities:

Surface Modeling & Geometry Development

- Own the development of complex 3D surface models for waterslide components.
- Create high-quality, continuous surfaces (A-class or equivalent) suitable for large-scale fiberglass structures.
- Develop and refine geometry for long, continuous ride paths and complex transitions.
- Ensure surface quality, continuity, and alignment across multi-part assemblies.

Design for Manufacturability (Fiberglass / FRP)

- Design components with a strong understanding of fiberglass manufacturing processes.
- Application of manufacturability considerations such as part splitting, draft angles and flange design
- Collaborate with fabrication teams to ensure designs are practical, efficient, and production-ready.

Production Design & Technical Documentation

- Produce detailed part drawings and technical data packages (TDPs).
- Maintain accurate and organized design evolution documentation within PDM systems.
- Deliver product design documentation through ProSlide's Product Development Process.

Product Development & Validation

- Contribute across all stages of product development—from concept refinement through to product installation on site.
- Develop and execute test plans for prototype and production components.
- Analyze test results and drive iterative design improvements.
- Participate in design reviews with a focus on technical feasibility and performance.

Field Support

- Participate in on-site installation and product verification activities.
- Ensure that manufactured components meet design intent and performance expectations.
- Travel internationally as required (up to 15%).

Qualifications

Core Requirements

- 5+ years of experience in product design with a strong focus on 3D CAD surface modeling.
- Advanced proficiency in SOLIDWORKS surfacing tools (or equivalent CAD surfacing platforms).
- Ability to use AutoCAD and knowledge of blocks.
- Demonstrated experience creating complex, non-prismatic geometry (not simple mechanical parts).
- Strong understanding of how designs translate into physical products.

Preferred Experience

- Experience designing fiberglass (FRP) parts and their associated production tools.
- Familiarity with tooling, molds, or fabrication processes.
- Experience working on large-scale physical products
- Hands-on experience with prototyping and physical validation.

Additional Attributes

- Strong problem-solving mindset with attention to geometric detail.
- Comfortable working in a fast-paced, iterative development environment.
- Effective communicator in technical discussions and design reviews.
- Willingness to engage in hands-on testing and fieldwork.

Important Note for Applicants

This role is heavily focused on technical CAD development and manufacturable geometry.

If portfolios are provided they should demonstrate strong surface modeling capability and real-world product development experience.