



## Mechanical Engineer (Senior or Principal) -Themed Entertainment & Complex Systems

**\*\*This position requires access to export-controlled technical data subject to U.S. export control laws (including ITAR). Therefore, candidates must qualify as a U.S. person under ITAR (U.S. citizen or lawful permanent resident).**

### About Uni-Systems Engineering

Uni-Systems Engineering designs and delivers iconic moving structures for theme parks, stadiums, aerospace, and other complex applications. From world-class attractions to stadium roofs and custom cranes, we provide engineering solutions that balance innovation, safety, and reliability.

### Position (Job) Summary

We are seeking a hands-on, highly collaborative Senior or Principal Mechanical Engineer to join our new Orlando, FL office. This role is ideal for someone with a background in themed entertainment and other complex mechanical systems who can communicate effectively with our Minneapolis engineering team to deliver high-profile projects from concept to commissioning.

### (Key) Responsibilities

- Lead the design of mechanical systems including actuators, gearing, weldments, wheel assemblies, bearings, hydraulics, and motion mechanisms.
- Coordinate daily with our Minneapolis team to ensure technical alignment and efficient project execution.
- Manage project deliverables, schedules, and budgets.
- Perform engineering calculations, FEA analysis, and design reviews.
- Work with contractors, suppliers, and clients to resolve technical challenges.
- Oversee fabrication and integration, ensuring engineering intent is met.
- Support field installation, commissioning, and troubleshooting.

### Job Requirements

#### Minimum Qualifications

- B.S. in Mechanical, Structural, or Aerospace Engineering (ABET-accredited).
- 5+ years of experience in complex mechanical system design.

- Experience in themed entertainment, amusement, or large-scale moving structures.
- Strong collaboration and communication skills.
- Proficiency in SolidWorks and FEA tools.
- Knowledge of relevant standards (ASTM F2291, AISC, AWS).
- U.S. citizenship or permanent resident status.
- Ability to travel up to 20%.

### Preferred Qualifications

- Must qualify as a U.S. person under ITAR due to access to export-controlled technical data.
- M.S. in Mechanical, Structural, or Aerospace Engineering.
- Florida P.E. license.
- Hands-on fabrication or commissioning experience.
- Experience integrating mechanical and control systems.

### Why Join Us (Benefits of Employment)

- Competitive salary and growth opportunities.
- Comprehensive benefits including medical, dental, vision, life, disability, and 401(k) with above-market match.
- Paid Time Off and company holidays.
- Work on high-profile, technically challenging projects in multiple industries.
- Be part of a collaborative culture built on integrity, innovation, and excellence.