

## Mechanical Design Engineer

*(Rotating Equipment & Product Development)*

**Location:** Tripoli, Greece

**Company:** Ergoseal

### About Ergoseal

Ergoseal is a U.S.-based engineering and manufacturing company specializing in advanced sealing solutions for rotating equipment. Our technologies include **mechanical seals, PTFE rotary seals, magnetic seals, and non-contacting seals** used in demanding industrial and aerospace environments.

Ergoseal is expanding its engineering operations in **Tripoli, Greece** to support global product development and engineering collaboration.

We are seeking a **Mechanical Design Engineer** to support the development of engineered sealing systems used in rotating machinery.

### Position Overview

The Mechanical Design Engineer will work closely with Ergoseal's engineering team in the **United States** to develop **3D models, assemblies, and manufacturing drawings** for advanced sealing technologies.

This role provides an opportunity to develop expertise in **mechanical design, rotating equipment, and advanced engineering systems** while working in an international engineering environment.

The Mechanical Design Engineer will collaborate closely with Ergoseal's **CAD Systems Engineer** to ensure designs follow standardized workflows and engineering systems.

## Key Responsibilities

### Mechanical Design

- Develop **3D models and assemblies in SolidWorks**
- Produce manufacturing drawings and technical documentation
- Support design revisions and engineering improvements
- Assist with tolerance analysis and design-for-manufacturing

### Engineering Development

- Work with senior engineers to develop sealing solutions for rotating equipment
- Support design calculations and engineering analysis
- Assist with engineering testing and product development
- Develop understanding of mechanical sealing technologies

### Engineering Documentation

- Maintain engineering drawings and design documentation
- Support engineering change and revision processes
- Ensure designs follow company engineering standards

### Engineering Knowledge & AI Systems

- Help capture engineering knowledge and design standards
- Document engineering practices, lessons learned, and technical guidelines
- Contribute to Ergoseal's internal engineering knowledgebase
- Support development of structured engineering data for future **AI-assisted design tools**

### Engineering Quality Support

- Perform incoming inspection of mechanical components
- Verify dimensions and tolerances against engineering drawings
- Conduct visual inspection of machined parts and assemblies
- Document inspection results and report any deviations
- Support communication with suppliers regarding technical issues
- Assist with continuous improvement of engineering drawings and specifications based on inspection findings

This responsibility is expected to represent a small portion of the role (typically several hours per week).

### Seal Test Rigs & Experimental Engineering

- Assist in the **design, fabrication, and assembly of mechanical seal test rigs**
- Support setup, operation, and execution of **seal performance and development testing**
- Instrument test rigs with basic sensors (pressure, temperature, speed, leakage, etc.) as required
- Collect, document, and interpret test data in coordination with senior engineers
- Support continuous improvement of test fixtures, procedures, and documentation
- Assist with troubleshooting test rig issues and mechanical failures
- Ensure test activities follow company safety, quality, and documentation standards

## Collaboration

- Work closely with engineers in the United States on product development projects
- Coordinate with the CAD Systems Engineer to maintain engineering systems and design standards
- Support manufacturing and engineering teams with technical documentation

## Qualifications

- Bachelor's degree in **Mechanical Engineering**
- Experience with **SolidWorks or similar CAD software**
- Strong mechanical design fundamentals
- Fluent English required for collaboration with U.S. engineers
- Strong problem-solving skills and attention to detail
- Competency with **Microsoft Office products**, including **Excel, Word, and Outlook**
- Ability to **touch-type efficiently**

## Preferred Experience

- Mechanical assemblies and rotating equipment
- GD&T and manufacturing drawings
- Hands-on mechanical design projects
- Interest in product development and engineering systems

## Ideal Candidate

The ideal candidate is someone who:

- Enjoys mechanical design and engineering problem solving
- Wants to develop expertise in advanced mechanical systems
- Is motivated to learn and grow in an international engineering environment
- Enjoys working on real engineered products

## Why Join Ergoseal

- Work with an **international engineering team**
- Gain experience in advanced mechanical systems
- Contribute to technologies used in **industrial and aerospace equipment**
- Participate in building modern engineering tools and knowledge systems

## Compensation

Competitive salary based on experience.

## How to Apply

Submit your resume to:

**[careers@ergoseal.com](mailto:careers@ergoseal.com)**