

Mechanical Design Engineer

Department: Engineering
Reports to: Engineering Manager
Location: Union City, CA; Port Orchard, WA or El Paso, TX
Experience: 4 to 6 years, preferably in Mechanical Engineering
Job Type: Full Time (exempt)
Education: B.S. degree in engineering
Travel: Up to 10%

About Us

Tournesol Siteworks is a national manufacturer of landscape products for green buildings based in the San Francisco Bay Area. We're a growing company, with manufacturing facilities in California, Washington and Texas, working on environmentally-conscious commercial construction projects across the U.S and Canada. We're a tight-knit group looking for a real team player.

About the Team

The Engineering Team is currently seeking a Mechanical Design Engineer to work at one of our manufacturing locations. The Engineering team is composed of members with varied but complimentary experience, qualifications, and skills and is responsible for the design, engineering, analysis, and documentation of products, systems, structures, materials, and projects, small and simple to large and complex that fulfill objectives and requirements.

About the Role

As a Mechanical Design Engineer, you'll work under the direction of the Engineering Manager on custom projects and standard products reviewing criteria, identifying and analyzing solutions, applying and transferring information, choosing best solutions, and making decisions that directly impact and contribute to final designs. You'll be based in one of our manufacturing locations (Union City, CA; El Paso, TX; Port Orchard, WA) and you'll be required to travel occasionally to our other facilities. You'll have a direct hand in accomplishing our #1 goal – a successful project in every way.

Essential Duties and Responsibilities

- Implementation of designs into manufacturable products that meet project objectives and requirements. This will include, but not be limited to:
 - DFM/DFA, finite element analysis, structural calculations, prototyping and assembly, physical testing.
 - 3D parametric and master modeling, drawing/BOM creation.
 - Design and construction assistance of fixtures, equipment, and procedures.
- Works cross-functionally to oversee, lead, and coordinate projects, ensuring timelines and goals are met.
- Performs design work including data research, feasibility and costing studies.
- Can consistently solve complex problems while providing simple cost-effective solutions (creative design solutions, complex made simple).
- Stay organized in a fast-paced, open team environment, while working on multiple projects in varying stages and at various levels of development.
- Some coaching and leadership of engineering support staff will be required.
- To continuously identify, recommend and/or undertake activities and methods to make positive contributions to the company goals and initiatives within the scope of the position.
- Work will require individual to enter plant areas where performance factors such as: heat, noise, dust, lifting of materials, and working around equipment will be encountered.
- There will be some travel to various production facilities to stay abreast of manufacturing capabilities and to provide support for manufacturing/production implementation.

Tournesol Siteworks provides equal employment opportunities to all employees and applicants for employment without regard to race, color, religion, marital status, age, national origin, ancestry, physical or mental disability, medical condition, pregnancy, genetic information, gender, sexual orientation, gender identity or expression, or veteran status. In addition to federal law requirements, Tournesol Siteworks complies with applicable state and local laws governing nondiscrimination in employment in every location in which the company has facilities.

Necessary Skills

- Advanced understanding of engineering principles and how to effectively implement them in the creation of products. Experience with outdoor products is a plus.
- Excellent 3D CAD skills, Inventor/Solidworks (Inventor preferred)
- Strong knowledge of manufacturing processes:
 - Sheet metal, tubular steel, welding, machining, metal casting, metal forming, extruding (plastic and metal), fiberglass composites, lightweight concrete, plastic thermoforming, plastic molding, and wood working.
- Strong communication skills. Written and verbal.
- Self-motivated with strong problem-solving skills. Exceptional team working and collaboration skills are mandatory.
- Experience navigating and working in a manufacturing facility.

Benefits

- Competitive salary
- Paid time off
- Paid holidays
- Medical, dental, vision, disability and life insurance
- 401k with employer match

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions, unless accommodation would cause undue hardship to the business. While performing the duties of this job, the employee is regularly required to:

	Physical Demands																	
	Lift/Carry				Push/Pull				Bend									
Frequency	< 10 lbs	11-20 lbs	26-40 lbs	41-100 lbs	< 12 lbs	13-25 lbs	26-40 lbs	41-100 lbs	Squat/kneel	Sit	Walk	Stand	Climb	Crawl	Reach above shoulder	Handling / Fingering	Twist/Turn	Keyboard
Occasionally		X													X	X	X	
Frequently											X	X						
Constantly										X								X

Occasionally – Activity or condition exists 1/3 of the time

Frequently – Activity or condition exists from 1/3 to 2/3 of the time

Constantly – Activity or condition exists 2/3 or more of the time

“Frequently” or “Constantly” are ESSENTIAL elements, or demands occurring in the job since they exist, in general, more than half of the time.

Physical demands which are designated “Occasional” may be considered essential depending on other conditions.

To Apply

Submit your resume and salary requirements to jobs@tournesol.com

Please do not submit more than once. We'll do our best to respond within 3-5 business days to candidates being considered for the position. After a preliminary phone interview, you may be scheduled for an in-person interview. For more information visit www.tournesol.com or follow us on Instagram and Facebook.