



Upstart Power

JOB DESCRIPTION

Job Title:	MECHANICAL DESIGN ENGINEER
Department:	Operations
Reports To:	Senior Mechanical Engineer
Status:	Salaried – Exempt
Hours/Work Days:	40 hours per week (Monday through Friday)
Location:	Southborough, MA
Last update (date):	January 6 th , 2021

PRIMARY EMPLOYMENT OBJECTIVES

Reporting into the Senior Mechanical Engineer, the Mechanical Design Engineer has responsibility for working as part of a team to develop low-cost, high-reliability SOFC systems. The Mechanical Design Engineer will manage individual design work to support parts and subassemblies, as well as developing and testing plans to validate designs.

SPECIFIC ESSENTIAL DUTIES & RESPONSIBILITIES

- Propose solutions to address design challenges, including making an assessment of situations or data and requiring the evaluation of multiple factors and tradeoffs
- Design reliable, inexpensive parts and assemblies using 3D CAD tools and top down design techniques
- Work with project management to create and track schedules for mechanical engineering activities
- Coordinate with purchasing and vendors to procure prototype parts
- Build and test design prototypes
- Develop test plans to establish reliability metrics
- Document all design outputs and test results

KNOWLEDGE, SKILL & EXPERIENCE REQUIREMENTS

- 3+ years of experience, with a proven track record of successful problem solving and design
- Ability to provide creative, yet pragmatic solutions to complex engineering problems
- Expertise in the use of modern design tools including SolidWorks
- Experience in the design of sheet-metal components
- Working knowledge of fluidics, mechanics, heat transfer and materials
- Knowledge of good engineering practices including drafting standards and tolerance analysis methods
- Experience with MS office applications including Word, Excel, and Project
- BS or advanced degree in Mechanical Engineering
- Strong verbal and written communication skills

BEHAVIORAL COMPETENCY REQUIREMENTS

<i>Dealing with ambiguity</i>	<i>Action oriented</i>	<i>Functional or Technical skills</i>
<i>Learning on the fly</i>	<i>Problem solving</i>	<i>Technical learning</i>

WORK ENVIRONMENT (include physical requirements)

- Office and manufacturing floor presence

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