RENEWABLE INNOVATIONS, INC.

Job Description

Division/Department:	Engineering
Job Title:	Electrical Engineer
Reports to:	VP Engineering / President

Class:	Type of position:	Hours_40 / week
	☒ Full-time ☐ Part-time	☒ Exempt
	☐ Contractor ☐ Intern	☐ Nonexempt

GENERAL DESCRIPTION

Department Objectives

General

Under general supervision, plan and conduct engineering research and development requiring judgment in the independent as well as collaborative evaluation, selection, and substantial adaptation and modification of standard techniques, procedures, and criteria.

Devises new approaches to problems encountered.

Technical

- Design, develop H2 systems, applications, and infrastructure
- Design electrical, electronics and electromechanical products in SolidWorks and SolidWorks Electrical with primarily focus on:
    - Implementing best practices for
        - Technology
        - Safety
        - Performance
        - Maintenance
    - Create assembly drawings and diagrams.
    - Develop work instructions for production.
    - Build full and accurate bill of materials with supporting documentation.
    - Support Sales and Marking efforts with documents
    - Develop and maintain engineering files and drawings
- Coordinate and mentor junior engineers and/or technical staff on specific projects
- Authoring or co-authoring research grants, articles, and manuscripts.

Other

- Bring excitement and Joy in your work and projects. Uplift other around you. Promote our objectives of Green, Clean, and Exciting.
- Continue to learn and improve using on-going lessons learned and studying best practices
- Study continually the industry, technology, and safety best practices and implement them
- Make sure your tools and equipment are always sharp, clean, and ready (metaphorically as well as actually)

PERFORMANCE EVALUATION CRITERIA

Self

- Set 3 self-goals of improvement quarterly
- Let your peers and manager know what they are
- Evaluate you progress often

Peer

- Work with your peers and help them improve
- Work as a team to be the best Engineering professional in the industry
- As you meet with other engineers learn as much “best practices” as you can from them

Manager

- Work closely with your manager so they can help with your quarterly goals
- Your manager will focus on your improvement and team contributions to elevate you, the team and the company

EDUCATION

- Minimum EE BS Degree.
- and / or equivalent Industry and other Educational Experience
- At least 3 years of experience directly related to the duties and responsibilities specified.
- Completed degree(s) from an accredited institution that are above the minimum education requirement may be substituted for experience on a year for year basis.

EXPERIENCE

- Min 2 years in SolidWorks, or 3 years in other 3D modeling software
- PDM works experience
- Creating work instructions
- Hands-on metal shop:
    - Welding
    - Machining
    - Flatwork
    - Finishing
    - 3D Printing
- Working in a research and development setting
- Position requires:
- Utilization, adaptation, and modification of standard engineering concepts and principles in the planning and conducting of a wide range of engineering projects
- Use of independent judgment, initiative, and ingenuity in the selection and application of engineering methods and techniques
- Designing, coordinating, performing, evaluating, and quality control of research sub-projects of significant scope and import
- Acting as project leader or principal investigator on self-initiated research sub-projects
- Coordination and leadership of more junior engineers and/or technical staff on specific projects
- Authoring or co-authoring research grants, articles, and manuscripts.

KNOWLEDGE, SKILLS, AND ABILITIES REQUIRED

- Skill in the use of routine laboratory equipment.
- Knowledge of current technological developments/trends in area of expertise.
- Skill in the use of personal computers and related software applications.
- Ability to draw conclusions and make recommendations based on research data and findings.
- Ability to communicate effectively, both orally and in writing.
- Ability to use independent judgment to develop model concepts and approaches for research.

- Ability to design, organize, and coordinate scientific and/or engineering research projects.
- Knowledge of advanced mathematical concepts.
- Ability to conduct systematic analysis and develop solutions to complex problems.
- Knowledge of engineering and/or scientific research principles, practices, and protocols.
- Ability to perform independent, original research in an advanced area of scientific expertise.
- Knowledge of engineering/scientific experiments, tests, and data collection protocols.

CURRENT AND NEW TRAINING

- Safety Standards
- Solidworks (All Modules)
- Understanding development process
- Safety
- Lean manufacturing
- Leadership
- Writing
- Communication and Marketing