MECHANICAL ENGINEER

Job Title: Mechanical Engineer  
Location: San Diego, CA – Bay Park area  
Position Type: Full-time  
Experience Level: 5+ years of industry experience with B.S., 3+ years of industry experience with M.S.  
Benefits: Medical, dental, vision, life insurance, 401k, paid vacation, and a great team environment.

JOB SUMMARY
Lead on various hardware projects from concept, design, fabrication, to testing on a wide range of device-level components and manufacturing hardware. Emphasis on the mechanical design of battery cells, battery production equipment, and high-pressure systems. Creative problem solving, excellent attention to detail, and excellent working knowledge of SolidWorks are required.

DESCRIPTION
Become a critical member of our fast-growing team working to develop a breakthrough battery technology to change the way batteries are made and used worldwide to enable a greener future. In this position, you will be a key part of our core team, at the forefront of taking next-generation chemistries and packaging them into advanced battery cells.

We are looking for an experienced and creative Mechanical Engineer, with excellent attention to detail to join our team in the Bay Park area of San Diego, CA. The ideal candidate can be given a design concept and independently design hardware components, communicate with machine & weld shops for fabrication, source and purchase necessary off-the-shelf components, and deliver final hardware systems with little oversight other than regular design review meetings. Major tasks may include the design of battery cell hardware and battery manufacturing hardware. This is a dynamic work environment with several parallel projects with various timelines. Some limited in-house machining is also necessary.

An ideal candidate would have a working knowledge of design for high-pressure systems, o-ring sealing systems, elastomer material thermal and chemical properties, various weld techniques (spot, sonic, laser, TIG, MIG, etc.), metal forming, metal stamping, and plastic extrusion. Knowledge of battery cell assembly, manufacturing processes, gas flow systems, FEA analysis, LabView, data acquisition units, electrical wiring, is also highly desired.

RESPONSIBILITIES
• Design and build hardware components unique to our proprietary battery technology
• Communicate and work with various machine shops to fabricate components
• Source and purchase necessary components
• Assembly, test, and qualification of hardware systems
• Assures mechanical engineering designs will meet ASME, API, NFPA, DOT, and any other applicable standards and regulations
• Effectively communicate ideas, concepts, designs, and results with the team
• Contribute to technical writing of grants, patents, and reports
• Work independently and efficiently to reach goals with target timelines
• Deliver epic High Fives
REQUIREMENTS

- 5+ years of industry experience with B.S., 3+ years of industry experience with M.S.
- Deep working knowledge of SolidWorks; simulation packages desirable but not required
- Demonstrated ability to prioritize, multi-task, and succeed in an environment with competing demands
- Excellent written and verbal communication skills
- Basic machining (ex. drill press, sanding)
- Ability to lift 35 lbs.
- An aptitude for learning new things and a keen eye for improving processes

ABOUT SOUTH 8 TECHNOLOGIES

South 8 Technologies, Inc. has developed a breakthrough new Liquefied Gas Electrolyte chemistry for electrochemical energy storage devices including lithium batteries and electrochemical capacitors. Our patented technology enables a substantial increase in energy, improved safety, and an exceptionally wide operating temperature. Leveraging conventional materials and manufacturing, South 8 Technologies offers a unique solution for a variety of transportation, grid storage, and aerospace applications.

South 8 Technologies, Inc. was founded in 2015 and spun out of UC San Diego’s Jacobs School of Engineering. We are a diverse team, which values integrity and hard work in an environment that encourages creative thinking, collaboration, and honest feedback. Become a critical member of our fast-growing team and grow alongside us as we revolutionize the energy landscape.

JOB APPLICATION

Candidates may apply by sending resume to jobs@south8technologies.com. Candidates only – we will not respond to inquiries from third-party recruiters. South 8 Technologies is an equal opportunity employer.