



**SI2 Technologies, Inc.**

**N. Billerica, MA 01862**

## **Senior Mechanical Engineer**

**Hybrid Position** (up to 2 days remote and at least 3 days on site in Billerica)

***Sign on Bonus for 5 or more years' experience!!***

***Relocation Assistance Provided!***

SI2 Technologies' (SI2) mission is to enable our country's warfighters to win by providing solutions to RF and survivability challenges. Since 2003, our organization has provided innovative, high-technology products to the defense marketplace. Working with both Government agencies and prime contractors as well as universities and non-profits, we have built a team of **smart, creative and energetic technical and business experts** who are passionate about our mission. Our culture can be described as collegial and collaborative with a closely knit team. We live by a set of values that sets us apart from other companies. If these values are meaningful to you, we'd like to talk to you!

***Tell It as It Is \* Instill Confidence \* Positive Attitude \* Take Ownership \* Problem Solvers \* Competitive Spirit***

Due to our continued growth, we are expanding our Engineering department and seeking a talented and highly motivated Senior Mechanical Engineer who can significantly contribute to grow SI2's existing sensor, communication and ISR systems expertise and capabilities including system integration/packaging in support of current and future programs. The ideal candidate likes working on a team, is a great communicator, and thrives on learning new approaches to solve challenging problems.

SI2 offers a *dynamic, merit based work environment* where highly motivated employees excel and are urged to reach their full potential. Come join our success and grow with the strength of our fascinating new products.

### **About the Role:**

- Execute hardware, software and system design and packaging tasks for existing and new contracts to develop conventionally manufactured as well as flex-hybrid and additively manufactured communication and sensor systems; Communicate challenges, approaches and results, and support the Program Manager in setting cost and schedule requirements
- Create and develop mechanical designs, including complex subsystems for the development of electronic, sensor, communication and ISR systems. Coordinate and

disseminate the work of junior level engineers, designers, and support personnel as assigned. Lead design segments as the Lead Mechanical Engineer on engineering efforts and take responsibility for achievement of schedule, fiscal and technical performance objectives.

- Perform detailed mechanical design/development meeting customer requirements and demonstrate system performance; Validate designs and models via experimentation; Identify critical design, material and manufacturing performance indicators and establish control parameters.
- Analyze mechanical components and subsystems using both common application programs and more advanced programs. Perform dynamic mechanical, thermal and/or vibration analyses on one or more complex materials, structural components or functional systems. Perform trade studies and document results for presentation to customers.
- Develop test plans and plan the fabrication of prototypes. Conduct testing of moderately complex systems and resolve design and related manufacturing problems, including product qualification testing.
- Generate, review and approve written reports supporting the design, analyses, and test of the product design including drawings, engineering specifications, and other associated documentation. Report on project status and progress measured against specific plans. Prepare design review packages and present data to both internal and external customers.
- Leverage SI2's capabilities in Direct Write materials and processing, as well as other additive manufacturing techniques, to deliver enhanced capabilities in the manufacturing of printed and flexible hybrid electronic systems that enable the design and manufacture of higher performance, lower cost electronic systems
- Maintain knowledge of the state-of-the-art mechanical design of electronic, sensor, communication and ISR systems through participation in professional organizations, reading professional publications, maintaining personal networks, and engaging in educational opportunities.

### ***Qualifications, Skills and Experience***

The highly qualified candidate will possess the following skills and proficiencies:

- Must be a U.S. citizen with the ability to obtain and maintain a security clearance
- An M.S. degree with 5+ years' relevant experience in Mechanical Engineering is required; Experience in securing and executing DOD proposals and contracts. Must be willing to continue professional development activities.
- Proven track record with solving complex mechanical design and packaging problems, performing detailed design, hands-on experience with mechanical system packaging techniques and associated materials.
- Experience using numerical tools to design and package electronics for antenna, sensor and power systems; Proficient at analyzing test results and relating them to design characteristics and manufacturing methods. Experience with RF and microwave design, materials and/or manufacturing is a plus.

- Hands-on experience writing, winning and executing R&D contracts and grants, e.g. BAAs, SBIRs, etc., for DoD and/or other US Government agencies. Technical experience working with the DOD and Defense Prime Contractors on contract R&D programs. Previous relationships with Defense Prime Contractor and DoD SME's is a plus.
- Exceptional communication skills (both written and verbal) and leadership qualities. Team-player with ability to influence and motivate others. Innovative, enthusiastic and open to new ideas.
- Ability to travel, as required, to prospective and existing customer and vendor facilities, conferences and trade shows.

We know that our greatest strength is our hardworking team, so we make sure that we reward our employees hard work with a people-positive and family-supportive work environment, and...

- **A competitive salary based on experience**
    - Annual Merit Increase based on individual performance and company financial performance
      - Quarterly Bonus Based on Company Financial Performance
        - **100% payment of healthcare premiums**
          - Vision, dental, life, AD & D and disability insurance
  - 401(k) with Company match; immediately 100% vested and additional profit sharing!
    - Tuition reimbursement, discounts and deferrals for advanced degrees
      - Generous paid time off
      - Flexible schedules
      - State of the art computer systems
      - Personalized Career Path Development Plan
    - Multiple (COVID-friendly) company social events throughout the year
- Work schedule: Monday – Friday**

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***Relocation Assistance Provided!***

**New employees must present documentation of COVID vaccination**

Be sure to check us out at: [www.SI2Technologies.com](http://www.SI2Technologies.com) and follow us on [LinkedIn](#).  
**#WeMakeThingsSmart**

*If interested in joining our fabulous team and growing company, please send your resume with salary interests to: [rightfitrecruiting@comcast.net](mailto:rightfitrecruiting@comcast.net), TODAY!*

SI2 Technologies is an Equal Opportunity Employer EEOC - M/F/D/V/VEEO