



**SI2 Technologies, Inc.**  
N. Billerica, MA 01862

## **Senior Digital Electrical 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 Digital Electrical Engineer who can significantly contribute to growth of SI2's existing sensor, communication and ISR systems. To be successful in this position, candidates must be innovative, enjoy learning and expanding their knowledge base, thrive on meeting challenging performance requirements, and have good communication skills to determine customer needs and create winning proposals.

### **About the Role:**

Key Responsibilities:

- Leverage cutting-edge SDR and DSP technologies to create novel designs for communication and sensor systems, addressing emerging customer requirements and enhancing U.S. warfighter capabilities. Work individually and with SI2's Airborne EW systems team to develop and propose competitive solutions for customers that capture new business and achieve overall Company goals and objectives.
- Evaluate system design requirements for existing and new contracts, identifying solutions and risks and supporting the Product Line manager in setting cost and schedule requirements. Document system technical requirements and identify critical design, material, and manufacturing performance indicators to establish design control parameters.
- Execute system, hardware, and software/firmware design tasks for communication and sensor systems to meet established technical requirements within cost and schedule constraints.

Validate designs and models via experimentation. Communicate designs and results to SI2 management and customer representatives.

Serve as Principal Investigator for research and development efforts, to include actively participating in technical business development, monitoring of project technical progress, updating project schedules, and overseeing project budget. Maintain communications with customers through regular reports and technical briefings, both in-person and electronic.

- Supervise and mentor junior engineers to enable their personal and professional growth
- Maintain knowledge of the state-of-the-art SDR and DSP technologies through participation in professional organizations, reading professional publications, maintaining personal networks, and engaging in educational opportunities.

### **About You:**

The ideal candidate will have the following attributes:

- US citizen able to obtain and maintain a Security Clearance
- Doctorate in Electrical Engineering with 2+ years of relevant experience, or a Masters in Electrical Engineering with 5+ years of relevant experience
- Proven track record designing, testing, and optimizing electronics and software/firmware for communication and sensor systems. Proficient at analyzing test results and relating them to design characteristics and manufacturing methods. Experience transitioning design ideas to product offerings, including product maturization and design for manufacturability, is a plus.
- Extensive digital hardware and software/firmware experience to include FPGAs, MCUs, and SoC devices and their use in embedded, low-power systems and SDR platforms. Familiarity with Verilog and C programming and communications protocols such as BLE, I2C, and SPI is a plus.
- Experience writing, winning, and successfully executing contracts and grants with the DoD and Defense Prime Contractors. Previous relationships with Defense Prime Contractor and DoD SMEs is a plus.
- Exceptional communications skills (written and verbal) and leadership qualities. Team player with ability to influence and motivate others. Experience managing small design teams is a plus.
- 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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**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/VEEO