



## SI2 Technologies, Inc.

**Job Title:** Senior Antenna/Array Research and Development Engineer

**Supervisor Title:** Product Line Manager

SI2 Technologies is a high-tech company dedicated to the design and manufacture of Radio Frequency/Millimeter Wave (RF/MW) systems for military, aerospace, and government platforms constrained by space, weight, power, and cost. Our mission is to increase our country's warfighters' effectiveness and survivability by providing solutions to RF/MW and survivability challenges. Our R&D engine combines deep design insight, engineering expertise and product development capabilities to manufacture and test antennas, arrays and/or signal management systems to facilitate optimum performance and increased survivability in land, sea, air, and space applications.

We are currently seeking a Senior Antenna/Array Research & Development Engineer. In addition to growing the contract R&D business, the Senior Antenna/Array Research & Development Engineer will support our product development and production teams by developing new intellectual property which can be transitioned to product development, as well as providing technical support during product development and through production as needed.

### **About the Role:**

#### Key Responsibilities:

- Execute & provide systems level expertise on technical tasks on R&D contracts to develop new antenna/array systems, technology and processes for DOD EW, ISR, radar and communication applications.
- Support product development technical activities through the design, development and testing of prototype antenna/array systems.
- Test antenna/array systems, analyze results in comparison to predicted performance and provide assessment of design, manufacturing process and performance. Write technical reports, prepare presentations and present results.
- Support the contract R&D business segment by writing and winning proposals (e.g. Small Business Innovative Research (SBIR) and non-SBIR), support the Program Manager in setting cost and schedule requirements, and support the Business Development Team on other activities(e.g. presentations and white papers).
- Develop trusted partner relationships with both Government and Prime Contractor SME's. Maintain up to-date technical and non-technical job knowledge through professional development activities and participation in professional organizations and societies.

## About You:

The ideal candidate will have the following attributes:

- Must be a US Citizenship able to obtain and maintain a Security Clearance
- M.S. degree in electrical engineering or related field with 5+ years' demonstrated experience in antenna/array systems research and development. A Ph.D. degree in electrical engineering or related field is a strong plus.
- Hands-on experience in the analysis, design, prototyping, and implementation of antenna/array systems for military EW, ISR, radar and communication systems.
- Background in development and analysis of advanced concepts for active phased array and broadband antenna systems. Working knowledge of military EW, ISR, communications and radar systems. Conformal and/or low-profile antenna and array experience is a plus. Absorber design and modelling experience is a plus.
- High proficiency with 3-D full-wave electromagnetic modeling tools such as CST, HFSS, and Microwave Office, as well as simulation tools such as MatLab, Simulink and other internally developed software. SI2 Technologies, Inc. Page 2 of 2
- Exceptional communication skills (both written and verbal) and leadership qualities. 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.
- Experience working in a small business environment is a strong plus.

## About Us:

Headquartered in Billerica, MA, we are located 45 minutes from Boston, and less than an hour from Worcester, MA or Manchester, NH. We have many of the perks you can find in the Boston/Cambridge area (walkable to lunch, local fitness facility, etc.) and some perks that you can't (ample free parking!)

We have assembled an action-oriented team of smart, creative and energetic technical and business experts passionate about our mission. Our diverse project portfolio and our commitment to our customers sets us apart. We solve complex warfighter problems through "smart" RF electronic system solutions. We use a combination of conventional and additive manufacturing designs, materials, and processes to enhance the warfighter's effectiveness while providing increased protection against current and emerging threats.

Everyone at SI2 Technologies is a part of the journey.

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

For more information, please visit [www.SI2Technologies.com](http://www.SI2Technologies.com) or follow us on LinkedIn. #WeMakeThingsSmart

**Please send resumes to [careers@si2technologies.com](mailto:careers@si2technologies.com)  
No phone calls please. Resumes from third party vendors will not be accepted.**