



SI2 Technologies, Inc.

**267 Boston Road
N. Billerica, MA 01862**

Senior Antenna/Array Research & Development Engineer

SI2 Technologies, Inc. (SI2) is a rapidly growing company whose mission is to enable our country's warfighter's to win on and off the battlefield by providing solutions to antenna system and signal mitigation challenges. SI2 is currently seeking highly motivated candidates for a Senior Antenna/Array Research & Development Engineer technical leadership position.

The successful Senior Antenna/Array Research & Development Engineer will help grow SI2's contract R&D business by executing on existing contracts and identifying and securing new R&D contracts, primarily from the Government. 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.

Job Description

As a Senior Engineer, you will be responsible for the following job functions:

- 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.

Qualifications, Skills and Experience

To be a successful Senior Engineer, you will possess the following skills and proficiencies:

- Must be a U.S. citizen with the ability 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.

- 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.

Job Environment

If you have the right stuff to join our team, you will excel in our work environment:

- **Merit-based Team Work** – We have assembled an action-oriented team of smart, creative and energetic technical and business experts passionate about our mission. The dynamic team is comprised of highly educated and talented people in the technical fields of electrical, mechanical, materials, manufacturing and aerospace engineering, chemistry and physics as well as the non-technical fields of business, finance, contracts and security. Our diverse backgrounds, experiences, and perspectives are the keys to our performance. Our team works in an energetic, flexible and small business environment. Each member of the team is offered the reward of individual responsibility with professional mentoring and support to excel and discover his/her full potential to make the greatest impact to the team.
- **Innovative Technology** – We solve complex warfighter problems through “smart” electronic system solutions. Our solutions utilize a combination of conventional and proprietary design, materials and manufacturing techniques to enhance the warfighter's effectiveness while providing increased protection against current, new and emerging threats. Using this technology, our team creates rapid, innovative and cost-effective solutions to the complex and ever-changing battlefield problems facing today's warfighters... We make things smart™.
- **Excellent Compensation** – We believe in rewarding the hard work of our employees with a generous benefits program that we strive to improve and upgrade to meet the needs of our employees. We offer an attractive, complete benefits package, which includes medical, dental, vision, life, AD&D and disability insurance, Flexible Spending – Health and Dependent Care, 401(k), immediate fully vested Company contribution to 401(k) and more. In addition, our employees receive paid time off for holidays, illness, personal use and vacation.

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

To apply for this position, e-mail your resume, salary requirements and statement of citizenship to jobs@si2technologies.com. Reference the Job Opportunity Title in the subject line.

Attention Agencies & Other Vendors:

At this time, SI2 Technologies, Inc. is not seeking any outside assistance to find qualified employees.