



SI2 Technologies, Inc.
267 Boston Road
N. Billerica, MA 01862

Staff Engineer – Antennas/Arrays

SI2 Technologies' (SI2) mission is to enable our country's warfighters to win by providing solutions to RF and survivability challenges. SI2 is currently seeking highly qualified candidates for a detail-oriented Antenna/Array Staff Engineer with experience in the detailed design, modeling, simulation and testing of antennas, arrays and RF systems.

Job Description:

As an Antenna/Array Staff Engineer at SI2, you will be responsible for supporting our antenna, arrays and RF system development activities using state-of-the-art electromagnetic design tools. In addition, you will oversee the internally and externally sourced manufacture and assembly of the components you designed as well as test the resultant systems. To be successful, you will need to be able to work other engineering disciplines, such as mechanical, materials and manufacturing, as well as outside support vendors and service providers, and generate support documents, including assembly drawings, detail drawings, test procedures, reports, etc. Since SI2 fosters and values the professional development of all employees, a successful Antenna/Array Staff Engineer will also have opportunities to grow with SI2 and should look forward to the challenges that this growth will bring, such as direct interfacing with customers on projects, supporting business development activities, and more.

Desired Experience:

- Bachelor's Degree in Electrical Engineering or equivalent with 1-4 years of RF/microwave antenna and array development. Defense industry experience is a plus.
- Expertise in using electromagnetic design tools including HFSS and CST to design and analyze antennas, arrays, and RF systems. Experience with additional design tools is a plus.
- Expertise in RF circuit design and layout using AWR and OrCad or similar tools, including generating circuit artwork/Gerbers.
- Expertise in testing antennas, arrays and RF systems including range testing protocols (e.g. calibration techniques), use of VNAs/PNAs, data processing to produce antenna and array gain patterns, etc.
- Expertise in developing and writing technical documents including design requirements documents derived from customer performance requirements, detailed test plans with support references and test reports with detailed analysis. Experience in developing and writing technical proposals based on interpreting customer requirements is a plus.
- Familiarity with RF materials and components and their associated properties/performance.

Requirements:

The successful candidate must have the following qualifications:

- US citizenship is required.
- Must be able to contribute to multi-disciplinary programs not necessarily confined to his/her area of expertise.
- Must have good organizational and writing skills; be self motivated, detail-oriented, enjoy teamwork and excel in a dynamic environment.
- Must be able to obtain a DoD Security Clearance. Existing DoD Security Clearance is a plus.
- Occasional travel will be required.

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 fields of electrical, mechanical, materials, manufacturing and aerospace engineering and physics. 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.