
Position: Electrical Engineer - Senior

Location/Department: Dulles, VA / Engineering

Statement of Work: The following describes the functions and qualifications of the position. These descriptions are not to be interpreted as being a limit on what an individual may accomplish in a given position. A supervisor must weigh the individual's talents, and decide if the total level of competence is sufficient to justify the position. The description is divided into two parts. The first part describes the generic requirements of the position, and the second part describes specific requirements for the Senior Electrical Engineer position.

Responsibilities - General: Develop specific areas of expertise, and be recognized competent in several areas. Participate in the architectural design of products. Write detailed specifications for substantial functional blocks. Will be responsible for substantial pieces of design, and will be given latitude in completing it. Will lead others in technical work and be responsible for the results. Will be expected to lead in project scheduling/estimation, and be held responsible for assignments. Research, and propose realistic solutions to problems. Should have developed specific areas of expertise. Will be a Lead Engineer on a project or may be a Project Manager, with responsibility for meeting milestones and performance requirements. Starting to understand and participate in technology management. Shows good business and technical judgment.

- **Teaming:** May be teamed with a Principal or above for large or difficult parts of a project.
- **Mentoring and Leadership:** Will mentor more junior engineers. Will be expected to successfully fulfill the role of Lead Engineer on a project.
- **Sphere of Operation:** The Senior Electrical Engineer will become involved in developing technology with other business units throughout TAG, as well as fulfilling normal business unit specific engineering activities.

Responsibilities - Technical: The Senior Electrical Engineer will perform a key role in the development and definition of products through research, innovation, analysis of customer and marketing inputs and any other method necessary. The Senior Electrical Engineer shall work to determine the optimum architecture and make appropriate design choices between electrical, software, and mechanical domains. The Senior Electrical Engineer will design or direct others in the design of products so that the resulting equipment best meets the project goals, this includes assuring that the design is functionally correct, reliable and economically and repeatably producible. The Senior Electrical Engineer will also assist in the development of product documentation and the resolution of problems found in existing designs. The Senior Electrical Engineer will be responsible for considering economic and business factors when making decisions which affect development cost, manufacturing cost or product features.

The Senior Electrical Engineer shall:

- Be responsible for performing risk analysis of proposed approaches to find the optimal design solutions.
- Work with other engineers to define system architectures and then be responsible for implementing the subsystems architectures.
- Be responsible for the development of product and circuit specifications.
- Be responsible for designing and supervising the designs of circuits which meet the project requirements.
- Be responsible for translating design ideas into useable schematics, parts lists, block diagrams, wire lists, etc.
- Be responsible for the evaluation of and selection of components which most closely meet the project requirements, for making build/buy decisions, and for the generation of specifications for purchased components.

- Be responsible for the evaluation, testing, measurement, and debugging of circuits.
- Be responsible for the development and documentation of test procedures and test fixtures.
- Be responsible for writing and supervising the writing of operation and maintenance manuals, applications notes, etc.
- Be responsible for the evaluation of and solutions to problems found in existing designs.
- Perform each of the above tasks in a cost-effective manner and in a reasonable time frame.
- Perform other reasonably related duties as assigned by immediate supervisor and other management as required.

Technical Knowledge Qualifications:

- Experience in a communications and telecommunications product development environment required.
- Requires a thorough knowledge of electronics fundamentals along with knowledge of communications and signal processing theory. Must be proficient in both analog and digital design and should be recognized as an expert in at least one technical area. Must understand design tradeoffs in other disciplines to the point where appropriate design choices can be made between the various domains.
- Be able to translate design ideas into useable schematics, parts lists, block diagrams, wire lists, etc.
- Be able to evaluate and select components which closely meet the project requirements, generate specifications for purchased components, and participate in build/buy evaluations.
- Be able to evaluate, build, test, measure, and debug circuits. to meet the design criteria.
- Be able to develop and document test procedures and test fixtures.
- Prior Board Level x86 System Development experience.

The above qualifications are not to be interpreted as a complete description of all requirements of the job.

Education Qualifications: BSEE plus 7 years related experience preferred or MSEE with 5 years related experience preferred. Study to have included courses in communications, computer programming, digital and analog electronics.

Individuals who qualify for and are selected for this position, and do not currently live in the area, must be willing to pay their own expenses to relocate.

Working at TAG

Since 1984, Technology Advancement Group, Inc. has been an innovator in driving the IT industry to develop new products and is a leader in advanced hardware solutions for the rugged tactical IT arena. Our objective is to achieve the highest possible levels of service, delivery, and customer satisfaction consistent with our clients' requirements. As a privately held company and not a subsidiary or division of any other organization, TAG is able to proactively meet our clients' needs while simultaneously building our employees' careers.

Culture

Our positions offer a unique opportunity to join a growing, dynamic company that is partnering with government to help ensure national security. We encourage innovation, creative thinking, and team player attitude. Come work in a professional environment that promotes corporate and personal growth yet fosters balance. Through your skills, creativity, and commitment to excellence, you can contribute to our country's national defense and have a great time doing it!

Benefits

- Competitive pay
- Group health and dental coverage with prescription drug benefit
- Employee life and Accidental Death & Dismemberment (AD&D) coverage
- Annual vacation
- Sick leave
- Paid holidays
- 401(k) savings plan
- Direct deposit
- Credit union membership

TAG maintains a strong commitment to safety and requires that all new employees pass a drug test upon employment. Random drug screens may be a condition of continued employment.

Equal Opportunity Employer

TAG is an equal opportunity employer and, as such, affirms in policy and practice to recruit, hire, train, and promote in all job classifications without regard to race, color, religion, sex, age national origin, citizenship status, marital status, sexual orientation, or gender identity. Furthermore, TAG will not discriminate against persons who are veterans of the Vietnam era. Similarly, considering the need for reasonable accommodation to their limitation, TAG will not discriminate against persons because of their handicap, including disabled veterans. EOE M/F/D/V

www.tag.com