



Senior Electrical Engineer Position Description

Organizational Summary

CANA LLC (CANA) is a purpose-driven firm that applies analytics-based logistics solutions for Federal/State U.S. Government and commercial clients. CANA's principles include integrity, quality, best value, and respect. We believe that a better quality of life is achievable. The science around and application of quantitative methods can make a difference. Our brand, **Powered by CANA Analytics®**, refers to our CANA professionals and our solutions. It is the power of having subject matter experts who can deliver a fusion of information to our clients. This includes applied analytics methods, software development, supply chain and logistics operations, warehousing, program and project management, energy infrastructure and mobility planning, and logistics systems integration.

Role Summary

The **Senior Electrical Engineer** is skilled at leading cross-functional teams to research and analyze electrical designs, model power loads, and evaluate electrical behavior in tactical military settings. The **Senior Electrical Engineer** position requires a depth of knowledge of electric power sources, charging and discharging dynamics as well as software modeling of electric systems. The position requires the ability to work independently, with a group, and to provide leadership through projects and tasks within a fully virtual corporate environment.

Duties and Responsibilities

The **Senior Electrical Engineer** will be a subject matter expert (SME) on multiple efforts in the CANA project-focused environment within a virtual team. The **Senior Electrical Engineer** will work within a project team to deliver to customers and interface with key clients regularly. Through projects, the **Senior Electrical Engineer** will act in multiple roles supporting or leading the development of methodologies to evaluate the introduction or adaptation of advanced electrical systems in military tactical settings. As a SME, the **Senior Electrical Engineer** will help project team analysts translate electrical systems' terminology, data, and performance characteristics to practical military functional performance. The **Senior Electrical Engineer** should have a conceptual knowledge of the process of the conversion of radio frequency (RF) energy to electrical energy storage, both at the device level and tactical grid-level. The **Senior Electrical Engineer** will use their 5 or more years of experience in electrical engineering or



parallel experience in a military utilities specialty to perform informed analysis, to conduct studies, and to support the development of data-driven solutions.

CANA is a virtual company, requiring all employees to work effectively across multiple web-based collaboration, knowledge management, file storage and work environments. The CANA employee must quickly develop an ability to work effectively with technical teams by using these web-based technologies.

As a CANA employee, the **Senior Electrical Engineer** is encouraged to identify areas of service that CANA might provide to support worthwhile causes related to the employee's areas of interest.

Qualifications and Required Skills

- Educational Requirements:
 - Bachelor of Science Degree in Electrical Engineering, or related technical field required. A Master's Degree in Electrical Engineering OR Military service in an electrical utilities specialty is preferred.
- 5 or more years of relevant work experience.
- Model and evaluate electrical designs and operating characteristics.
- Detailed understanding of the conversion of various energy forms to electrical energy, particularly RF to electric energy.
- Detailed understanding of the effect of environmental variables on electrical performance.
- Performance in a fully virtual work environment with the ability to work with an expanded virtual team.
- Excellent communication skills at all management and technical levels, demonstrating understanding and adapting appropriately to the environment.
- Leadership in definition, organization, delegation, and monitoring of tasks through completing tasks or projects.
- Experience in preparing and delivering practical communications, primarily through virtual environments.
- Experience with team-building activities and harnessing technology to enable learning at all levels.
- Applied experience with information-based dashboards, MS Excel, Google platforms, and analysis software.



- Proven ability to manage and perform multi-tasks in a collaborative, virtual environment.

Desired Skills & Experience

- Military utilities background, to include military occupational specialty (MOS): USMC 1101, 1120, 1141; USN: 618x, Chief Engineer (SWO-DH), Construction Electrical (enlisted).
- Excel modeling, particularly VBA.
- Understanding of communications for smart power management.
- Performing load analysis to support design or evaluation of tactical power grids.
- Detailed understanding of the integration of electrical power sources into a grid design.

Travel

- At least 25% travel required.

Security Clearance

- Eligible for Secret level or higher clearance.