

Job Position Available: Senior Electrical Engineer

Chance Maritime Technologies provides technical solutions for autonomous vessels.

<https://chancemaritime.com/>

Chance Maritime Technologies is looking for qualified candidates for the position of Senior Electrical Engineer in Lafayette, Louisiana. This role consists of designing and integrating electrical and electronic systems for USVs (Unmanned Surface Vehicles). USVs consist of many mechanical and electrical systems functioning together with software to create a reliable solution for a wide array of maritime applications.

As an Electrical Engineer, you will be responsible for designing and integrating electronics and electrical systems / components for USVs and their payloads and any other task as required within your field of expertise.

This position requires a minimum of 5 years of experience with marine electronics design and a B.S. in Electrical Engineering, Computer Engineering, or similar degree. Robotics or offshore experience is a big plus.

The position requires occasional travel (average of 5%) and may require work offshore.

Reports to: CTO

Key Responsibilities:

- Collaborative can-do spirit, willing to work with others on challenging problems.
- Hands-on attitude: unafraid of solder, screwdrivers, and contact grease.
- Design, select and integrate electronics and electrical systems / components for USVs and their payloads.
- Design and draft electrical schematics, wiring diagrams, and load analysis from start to finish.
- Support ongoing operation and maintenance of the electrical systems for USVs deployed at customer locations including diagnosis of any technical issues the vehicle may experience.
- Peer review and configuration control of drawings as required.
- Communicate and coordinate effectively with team members of all disciplines and management.
- You may also assist with mobilization, operation, training, and demobilization of USV projects particularly during prototype phases of new designs.

Essential Requirements:

- Bachelor's Degree or higher in Electrical Engineering, Electronic Engineering, Computer Engineering, or a related field.
- Experience designing and integrating electrical and electronic systems in a maritime environment
- Excellent electrical knowledge including the ability to understand electrical diagrams, understanding of various components such as relays, actuators, and the ability to investigate and trace electrical issues.
- Experience with radio communication systems, as well as RF principles and practices.
- Ability to solder wires and make connectors.
- Understand and utilize effective troubleshooting techniques to resolve electrical system issues.
- Experience in the prototyping, set up, and fault finding of complex electrical systems.
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- To have strong oral & written communication, and interpersonal skills.

- To be self-directed, organized, systematic, punctual, and goal oriented.
- Ability to take high level direction from management and lead a small team of engineers.
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- This position requires the ability to obtain a TWIC card.
- This position requires use of information which is subject to the International Traffic in Arms Regulations (ITAR). Applicants must be a U.S. Person as per 22 CFR 120.15 in order to satisfy export compliance requirements.

Desirable Skills:

- Enthusiasm for the oceans and everything that floats or sinks in them.
- Basic boat handling skills and competency.
- Experience working in the offshore environment.
- Experience in the field of uncrewed vehicles and/or robotics.
- Experience wiring, cabling, and grounding design for minimizing electrical noise and EMI.
- Experience with industrial control systems, PLC's.
- Experience with communication signals such as ethernet, USB, RS-232, RS-485, SPI, I2C, CAN.
- Experience with marine electrical systems and sensors, including J1939, NMEA2000, and NMEA0183 devices.
- Experience in working with basic mechanical systems such as marine engines, actuators.
- PLC programming knowledge in structured text and use of debugging tools.
- Experience with Linux including basic terminal use.

*Chance Maritime Technologies does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, or other non-merit factor. All employment is decided on the basis of qualifications, merit, and business need.*

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