

## **JOB DESCRIPTION**

**effective date : 23 April 2018**

**Job Title: Senior Electrical Engineer**

**Department: R&D Engineering**

## **JOB PURPOSE**

To lead engineering development of electric traction drives and accessories

## **PERFORMANCE GOALS**

- Develop appropriate control algorithms for electric propulsion systems
- Develop performance specifications and performance calculations for Propulsion Systems
- Lead the development of the electrical design and performance testing of new Propulsion Systems.

## **ADDITIONAL RESPONSIBILITIES**

- Coordinate resolution of field problems associated with reliability and performance of Propulsion Systems
- Define and document Scope of Work for projects
- Define and document system bills of materials
- Help coordinate/initiate project kick-off meetings
- Monitor project throughout design, manufacture, commissioning and operation

## **REQUIRED KNOWLEDGE, SKILLS, & ABILITIES**

To perform this challenging job successfully, the requirements listed below are representative of the knowledge, skills, and ability required. We are looking for someone who will be able to quickly adapt to our requirements, who is looking for an extraordinary career opportunity and who wants to become a specialist in electric propulsion technology. We have ambitious goals and we are looking for people who share our passion for innovations in electrical propulsion. We look for an enthusiastic problem solver with proven talent in electric drives

## **Required Qualifications**

- Bachelors of Science in EE, ME, or equivalent experience.-Graduate degrees preferred.
- Thorough understanding of AC/DC motor control theory
- Thorough understanding of Power Electronics topologies and architectures
- Experience with software development for power electronics
- Experience in Power Conversion Products
- Must be comfortable working with High Power Designs (3300V 1200A IGBT's)
- Proven ability to read/understand module specifications and schematics and use for software debug & test
- The ability to work with high voltage, high current systems
- Experience with modular software design, development, and testing techniques and procedures

Possessing the following skills would be a bonus:

- Having excellent debugging and problem solving skills
- Being motivated and able to work with minimal direct supervision.
- Being able to work with a multi-disciplined design team
- Willing and able to travel within the United States and Internationally as required
- Willing to work in industrial and mining environments
- Foreign language skills, especially Spanish, French, German

Saminco Inc offers competitive wages, a full benefits package, and a flexible, dynamic and engaging work environment with opportunities to learn across many industries.

Contact:

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This job description supersedes all previous job descriptions. The job description is intended to be a tool to describe the primary purpose of the job and the KEY duties and responsibilities. The job description is not to be construed as an exhaustive list of all duties and responsibilities required. Management has the right to add to or change the job responsibilities at any time. All personnel may be required to perform duties outside their normal responsibilities from time to time, as needed.