



POSITION DESCRIPTION STATEMENT

(PDS)

TITLE: Electromagnetics Engineer

REPORTS TO: Engineering Manager

I.) PURPOSE OF POSITION:

To provide magnetics and electromagnetics design and development capabilities to the engineering department.

II.) KEY RESPONSIBILITIES:

- Evaluate specifications
- Develop design plans and parameter books
- Write proposals
- Participate in program reviews
- Maintain cognizance and accountability over product technical content
- Maintain cognizance over technology advancements and implement in new product where applicable
- Design & development of permanent magnet and wound-field generators and motors, as needed
- Design & development of other magnetic and electromagnetic devices
- Control product cost according to good DTC principles
- Other responsibilities as assigned by management

III.) RELATIONSHIPS:

- This position reports directly to the Engineering Manager
- Interfaces daily with other team members and other Engineers
- Interfaces with internal and external customers, including the military establishment
- Works with support personnel such as designers, drafters, technicians, analysts, in the pursuit of a common goal

IV.) MEASURES OF PERFORMANCE:

- Accuracy and completeness of work
- Timeliness of responses
- Management by fact
- Customer Focus
- Results Orientation
- Respect for People

V.) BACKGROUND AND SKILLS:

- BSEE or equivalent as a minimum
- Experience in the design of permanent magnet generators and motors, wound field generators and motors, Induction generators and motors, desired.
- Exposure to Aerospace and Military specifications and requirements desired
- Circuit design and analysis
- Knowledge of Simulation software packages (FEA)
- Highly evolved written communications; accurate engineering reports, concise proposals, correct e-mail protocol.
- Verbal communications; dynamic presentations, effective technical reviews, tactful interfacing with customer and vendor
- Organization; solid, multi-tasking, unfazed by pressure situations

For someone meeting the basic job requirements it would take six months to two years to become fully trained in the essential aspects of the job.

VI.) PERSONAL TRAIT PROFILE:

- Highly conscious of safety, quality delivery and cost
- Methodical problem solver
- Goal-oriented
- Organized and reliable
- Meticulous work habits
- Highly ethical
- Good at managing multiple priorities

VII.) SCOPE AND IMPACT OF POSITION AND RESPONSIBILITIES:

The position is best filled by a well-educated individual with exceptional technical capabilities, high level of creativity, sound judgment, good business sense, strong interpersonal and communication skills, strong organizational capabilities and a willingness to work within a multi-disciplined and highly technical environment