Position Description

Title: Senior Mechanical Engineer (Grade V)

Location: Whippany, NJ or Fredericksburg, VA

Classification: Exempt (Full Time)

Position Summary:

Breeze-Eastern is a leading global designer and manufacturer of high-performance lifting and pulling devices for military and civilian aircraft, including rescue hoists, winches, and cargo hooks. Rescue crews trust their lives with Breeze-Eastern products, and we take that responsibility seriously. The work we do benefits the greater good, and we are a global leader because we keep the best on board.

Our challenge is to develop and field next-generation helicopter search and rescue products including rescue hoists and sensors for improving situational awareness. Breeze hires some of the most talented engineers in the industry, and we are seeking candidates who will bring thought leadership and a strong desire to succeed in the delivery of innovative solutions and operational excellence to our customers.

The Senior Mechanical Engineer at Breeze-Eastern will plan, develop, and conduct engineering and product development projects that are of significant importance to the organization. This position will be responsible for all phases of development, including requirements development, project planning, concept development, detailed design, prototyping, testing, transition to production, and aftermarket support. The Senior Mechanical Engineer will provide planning, reporting, and management support in addition to technical implementation. As a senior resource on the team, the Senior Mechanical Engineer will need to be able to recognize project success from multiple levels of financial, technical, and timeline management responsibilities.

Duties:

- Lead mechanical engineering development of significant engineering projects with activities that include design, testing, and qualification to aerospace standards.
- Lead engineering activities of project teams, comprised of in-house staff, contractors, and consultants. Develop specifications, provide technical direction, and review work products.
- Design and develop advanced aerospace products and systems with CAD/CAE tools, computer-based simulations, rapid prototyping, testing, and technical documentation.
- Develop equipment and systems specifications, conceptual designs and detail designs based on customer needs.
- Interface with customers to understand needs and demonstrate the “art of the possible” in creative thinking and development.
- Analyze engineering sketches, specifications, drawings, and related data to determine size and arrangement of parts. Develop system architectures for products and integrated systems.
- Using 3D CAD software, develop detailed parametric models and multi-view drawings. Manage design configurations using data vaults.
- Identify and incorporate advanced materials, material processing techniques, coatings, and surface treatments and incorporate into next-generation products.
• Ensure compliance with applicable standards and specifications.
• Work both individually and as a leader and key contributor on project teams.
• Maintains professional and technical knowledge by attending educational workshops; reviewing professional publications; establishing personal networks; participating in professional societies.

**Required Education and Experience:**

• BS Mechanical Engineering or Aerospace Engineering degree (or equivalent) from an ABET-accredited college or university.
• An advanced engineering degree (MS) and/or project management certification is desired.
• Minimum experience of 8 years working as a mechanical, aerospace, and/or systems engineer.

**Job Requirements:**

• Strong leadership, teamwork, communication, organizational, and project management skills.
• Excellent problem solving and time management skills.
• Proficiency with CAD/CAE modeling and simulation tools.
• Experience developing electro-mechanical, electro-optical, and/or robotic systems.

Breeze-Eastern is committed to the principles of equal employment opportunity. It is the policy of Breeze-Eastern to recruit, hire, train, and promote persons in all job titles without regard to race, color, religion, sex, age, disability, veteran status, national origin, or any other characteristic protected by applicable law.