



Fluxtrol Inc.
1388 Atlantic Boulevard,
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Research Analysis Engineer

About Us: Fluxtrol Inc. (est. 1981) focuses on research, development & production of composite materials for magnetic flux control in induction heating systems. Our soft magnetic materials (sold under the brand names Fluxtrol & Ferrotron) are used in more than 20 countries worldwide bringing induction systems to a higher technical level. Fluxtrol Inc. also provides intensive technical support critical for challenging applications. We offer a variety of services dependent upon customer needs. These services include manufacturing of soft magnetic composites and ready to use concentrators, induction coil design, commercial computer simulation, technical consulting, cooperative technology development, prototyping and experimental validation. Fluxtrol is proud to serve companies and centers as NASA, Boeing, GE, Caterpillar, Pratt & Whitney, Tetra Pak, GKN, GM and many other leading companies in global industry.

Job Description: We are searching for an experienced and talented Research/Analysis Engineer to join our design and product development team. This key position requires the engineer to also be responsible for project management of assigned FEA and product development projects. This includes the ability to manage a contributing team, meet customer requirements, and complete project timing milestones.

The successful candidate must possess a BS minimum in ME/EE/Chem/Metallurgy (MS degree preferred), 1-2 years of related experience preferred, and be a US Citizen due to Export Control requirements. The engineer should also demonstrate excellent organizational, interpersonal, and problem-solving skills and be knowledgeable in manufacturing processes, materials selections, and product testing. Proficiency in COMSOL, Ansys, and/or the Altair family of products, as well as Mechanical Modeling and the Microsoft Office Suite, are required.

The Research/Analysis Engineer must also have excellent leadership, written and verbal communication skills, and extensive technical knowledge in analysis and product development. This position will involve prolonged periods sitting at a desk, working on a computer, and being able to lift up to 15 pounds at times. The engineer will also be required to traverse the manufacturing facility as required.

Project Responsibilities:

- Manage FEA projects and product development programs
- Provide guidance and leadership for assigned FEA projects
- Provide team training and mentoring as needed
- DVP&R development and execution performing physical testing/validation of prototype and production parts for correlation with analysis
- Follow production builds at customer installation, validation, and continuous improvement meetings on site
- Writing papers and presentations on projects assigned for customer meetings, publication, and presentation at technical conferences
- Reports to the Director of Engineering

Research/Analysis Responsibilities:

- Generate 3D mesh models
- Setup and establish boundary conditions/constraints
- Run FEA models
- Interpret FEA results
- Revise design iterations based on results to meet performance requirements
- Proficiency in the Altair family of products and/or Ansys or COMSOL
- Timely completion of projects
- Provide timing estimates for new and existing projects
- Represent the company in meetings with customers, vendors, international conferences, seminars, and trade shows

Other Skills/Abilities:

- Knowledge of manufacturing processes, materials selections, and product testing
- Strong analytical and problem-solving skills
- Proficient in mechanical modeling

- Excellent interpersonal and leadership skills
- Excellent written and verbal communication skills
- Excellent organizational skills and attention to detail
- Experience with project management tools (MS Project)
- Proficient in Microsoft Office Suite or similar software

Education, Experience, & Work Authorization:

- Candidate must have a BS (MS preferred) (ME/EE/Chem Eng/Metallurgy)
- One (1) or Two (2) years of related experience is preferred
- Due to Export Control requirements of our product family, candidates must be US Citizens

Physical Requirements:

- Prolonged periods sitting at a desk and working on a computer
- Must be able to repeatedly lift up to 25 pounds at times
- Ability to traverse manufacturing facility

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