Development Engineer
Freudenberg Filtration Technologies, L.P.
Hopkinsville, KY

The Company:
Freudenberg Filtration Technologies L.P. (www.freudenberg-filter.com) is a global technology leader in developing and manufacturing air and liquid filtration solutions. The company's Viledon®, micronAir® and VitalAir® brands are synonymous with innovative filtration systems for industrial, automotive and consumer applications. Additionally, Freudenberg Filtration Technologies provides complete air quality management service programs. With over 1,000 employees at 14 production facilities and more than 20 sales offices around the world, Freudenberg Filtration Technologies develops products that make processes more efficient, save resources and protect the environment. Freudenberg Filtration Technologies is part of the Freudenberg Group (www.freudenberg.com), a privately held company with broadly diversified products, markets and technologies. Founded over 160 years ago in Germany, Freudenberg has grown into global operating groups in Filtration, Nonwovens, Seals & Vibration Control Technology, Household Products and Chemical Specialties. Today over 30,000 associates generate revenues of $5 billion.

As a family company, Freudenberg strives for the highest standards of personal behavior. Fairness and integrity guide conduct towards each other, their business partners, and the general public. Entrepreneurship is Freudenberg’s heritage and the foundation of its success. It continues this tradition through delegated responsibilities, freedom of action, and personal accountability. The company believes in solid leadership based on personal example, putting trust in people, and promoting team spirit. It is committed to developing future leaders within the Freudenberg Group in order to safeguard this style. The company and its family shareholders together are committed to protecting the environment and being responsible corporate citizens in all countries and communities in which they do business. They take all possible care to ensure the safety of the workplace and of our products.

Responsibilities:
The Development Engineer will be involved with all aspects of advanced filtration/separation device development targeting industrial air filtration. This will include development of laboratory tests to model field performance; technical support to field trials; troubleshooting/failure analysis; development of new media options; development/construction of filtration device prototypes; conducting production trials; laboratory testing of media and filtration devices; technical support for production, sales, customer service, and purchasing; and representation of Freudenberg products with customers as well as the general filtration community at technical conferences and industry meetings. The successful candidate will be the type of individual who is attracted to seemingly intractable problems that daunt the majority of those who attempt solution, often lies awake at night thinking of solutions, is energetic and able to independently develop new ideas in the face of adversity, has excellent interpersonal skills, and is not afraid to learn new topics or perform unexpected tasks in order to reach solutions.
**Essential Functions:**
- Demonstrates a commitment to safe and environmentally compliant practices; accepting responsibility for all safety, health, and environmental related components of work.
- Develops and operates new laboratory test methods that may involve dust, fuels, pumps, and chillers, in order to advance project goals.
- Develops new filtration/separation media and filtration devices through understanding technical performance drivers, media design, creation of multilayer composites, sourcing of raw materials/components, and building prototypes.
- Tests media and filtration devices using existing or new laboratory methods and performance tests.
- Independently sources materials, chemicals, equipment, and outside testing as required to successfully meet project goals.
- Identifies and works effectively with internal and external suppliers.
- Conducts field tests and production trials as dictated by project needs.
- Develops and supports manufacture of reduced cost product variants through viable cost savings proposals with complete follow-through.
- Performs interdepartmental functions such as technical support as well as development of design proposals, cost estimates, bill of materials, and engineering change requests.
- Collects, analyzes, and plots data/results, draws conclusions and formulates result-based next steps.
- Presents results in excellent oral and written format within Freudenberg as well as at external venues such as customer sites, industry meetings, and technical conferences.
- Demonstrates excellent record keeping and organization with laboratory notebooks, reports, samples, and computer files.
- Tracks and broadly communicates project milestones and deliverables.
- Performs other related projects and duties as assigned.

**Qualifications:**
- Bachelor degree in Chemical Engineering, Material Science, Chemistry, Paper Science, Textile Technologies, Mechanical Engineering, Biology, Biochemistry and/or other relevant scientific/engineering disciplines required.
- Demonstrated experience with independent development or experimental work such as academic undergraduate research or industrial co-op/internship.
- Practical knowledge of laboratory techniques, experience with literature searches, able to use technical literature to forward project goals, demonstrates solid understanding of separation science principles.
- Must be able to learn, understand, and apply new technologies that may lie outside primary area of expertise.
- Strong interpersonal skills and demonstrated excellent written and verbal communication.
• Demonstrated capability with observation-based laboratory practice including careful sample preparation, experiment design, and use of controls, calibration, and repetition.

• Strong data analysis skills using MSEexcel or equivalent: plotting data, finding correlations, regression, generating charts and graphs, drawing objective inferences from results.

• Proficient with MSWord, MSEexcel, MSPowerPoint, and capable of learning job-specific software. Familiarity with AutoCAD, ProE, Autodesk Inventor desired.

• Must be able to work independently, manage rapidly changing priorities, and be capable of multi-tasking.

• Must have a natural enthusiasm for science and seemingly intractable technical challenges, a willingness to learn independently, and be able to perform well in a collaborative environment.

• Must have a demonstrated proactive and efficient work ethic, be results driven, and operate with strong sense of urgency, as well as a high level of attention to detail.

• Must be able to take direction from, work with, and learn from people having a variety of backgrounds.

• Some travel required.

• Must be willing to work non-regular hours.

**Physical Demands:**

• Able to lift up to 50 pounds.

• Able to stand and work for extended periods in hot or cold temperatures.

**How to Apply:**

If interested and meet qualifications, please send your resume with salary requirements to Cecilia.Luna@freudenberg-filter.com or fax to 270-887-5119.

**As an Equal Opportunity Employer, we are committed to a diverse workforce.**