

Job Number 1306546  
Business GE Home & Business Solutions  
Business Segment GE Appliances & Lighting  
About Us - Internal GE Appliance and Lighting spans the globe as an industry leader for more than a century and has been committed to producing innovative products that change the way people live. That spirit continues to flourish as our growing Appliance and Lighting teams takes on some of the world's biggest challenges to deliver products that will forever change the way people think about their homes. Whether it's developing Smart Grid enabled appliances that will shave energy peaks for utility companies and save consumers money or creating appliances with dramatically improved energy efficiency or responding to consumers' desire for more time in their busy lives, the GE Appliances and Lighting teams are dedicated to turning imaginative ideas into leading products and services that solve some of the world's toughest problems.

100 years of innovation and we're just getting started! Join us and part of the next revolution in innovation and leadership.

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GE Appliances & Lighting is an Affirmative Action Employer.

Posted Position Title - Internal Materials Characterization Lab Technician  
Location United States  
U.S. State, China or Canada Provinces Ohio  
City Euclid  
Postal Code 44117-1195  
Hiring Manager Ina, Anthony  
Corporate Career Band Hourly  
Career Level Experienced  
Function Manufacturing  
Function Segment Shop Operations  
OHR Grade R16.H01.HRLY  
Relocation Expenses No  
Role Summary/Purpose - Internal The Materials Characterization Laboratory at GE Lighting in Euclid, Ohio has an opportunity for a lab technician to be part of an energized team of scientists involved in chemical and physical characterization of materials related to our Lighting business. We work in a diverse, exciting

environment with access to state-of-the-art equipment applied to challenging manufacturing and technology projects that enhance quality, growth and competitiveness.

Essential Responsibilities -  
Internal

Primary responsibilities for this position involve working with Lighting's technology, manufacturing and business teams to execute a wide array of tests involving the use of electron microscopy, optical microscopy and metallurgical techniques for chemical composition and structural characterization. The candidate is expected to provide consultation on experimental results and analytical interpretation and collaborate with teammates in solving complex technical problems.

- Surface and microstructure analysis of lamp components to establish failure modes
- SEM/EDS elemental analysis and mastery of associated sample preparation methods
- Grain size determinations and phase characterization of various materials
- Thickness and composition evaluations of lamp phosphor systems and various layered structures
- Recrystallization determinations for lamp filaments
- Digital photography
- Insure results are reliable and deadlines are met
- Effectively document results in customer reports
- Develop and implement new analytical methods to meet growing demands

Qualifications/Requirements -  
Internal

- Bachelors degree in chemistry and/or metallurgical engineering or equivalent
- A minimum of 2 years of experience in industry or academia in materials analysis with key emphasis on SEM/EDS, optical microscopy and metallography techniques

Desired Characteristics -  
Internal

- Excellent oral and written communication skills
- Excellent team skills
- Strong problem solving skills
- Technical leadership abilities
- Computer proficiencies
- Knowledge of additional analytical techniques including mechanical and physical testing