



Job Title: Sr. Phosphor R&D Engineer (Synthesis)

Position Location: Intematix Corporate Headquarters, Fremont, CA

Reports to: Director

General Purpose/Objective:

This position is primarily responsible for supporting the research and implementation of LED phosphor materials synthesis, processing, characterization, instrumentation and equipment by performing the following duties. Initiates the development, execution and implementation of technology research projects. Investigates the feasibility of applying scientific principles and concepts to potential inventions and products. Plans and executes applied research. Maintains substantial knowledge of state-of-the-art principles and theories, and may contribute to scientific literature and conferences. May participate in development of patent applications. May coordinate interdepartmental activities and research efforts.

Essential Duties and Responsibilities:

- Provides expertise in phosphor engineering-- design, process, optimization and scale-up.
- Strong background in Chemical Vapor Deposition (CVD), especially CVD in inorganic powder.
- Develops and optimize new and existing processes to achieve cost effectiveness and improved product quality.
- Carries out various materials and application R&D Research and development experiments.
- Carries out all relevant testing to characterize the materials/process.
- Performs scale-up experiment for mass production.
- Assists the manufacturing operation in problem solving with regards to equipment/process.
- Ensures ISO compliant documentation and controls are establish and maintained.
- Summarize tech data and provide verbal and/or written reports.
- Can work independently with materials.
- Maintain maintenance of lab and equipment.

Measurement Criteria:

Quantitative and qualitative, related to the areas of responsibility.

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Required Qualifications:

- PhD degree or Masters Degree with 5-8 years of experience in Materials Science, Chemistry, Chemical Engineering or related majors;
- 5- 8 years related experience and/or training; or equivalent combination of education and experience.
- Thorough understanding of material science/engineering especially inorganic materials, solid state chemistry or ceramics
- Coating technology (gas phase, CVD, coating, liquid coating, etc.)
- Hands-on experience on materials synthesis and characterization such as PL measurement, XRD, SEM etc.
- Use of continuous improvement, quality tools and statistical process control methodologies.
- Familiar with AX/ERP a plus.
- Good communication skills - written and verbal.
- Good team work spirit
- Proficient in English a must.

Principals only! Send resumes and cover letter to: Jobs@intematix.com