

**PROMERUS LLC
JOB DESCRIPTION**

Job Title: Materials Scientist - Intern

Location: Brecksville, OH

Duties/Responsibilities:

Promerus LLC is a subsidiary of Sumitomo Bakelite of Japan. We design and prepare advanced materials for the next generation of applications in the semiconductor, optoelectronic and electronic packaging market. As a member of the instrumentation team, the selected candidate will be involved in failure analysis, failure aversion, and experimental design. Duties typically will involve forensic inquiry into the process or product which caused the failure. Such inquiry can be conducted using scientific analytical methods such as electrical and mechanical measurements, or through speculative approach when the data is not available but an action has to be taken.

This position is considered a temporary internship. The job description is designed to illustrate a variety of different projects that may require attention at Promerus, and students that excel in any one or multiple described skills are encouraged to apply.

Experience Needed:

- Pursuit of a degree in an analytical science such as analytical chemistry, chemical or electrical engineering, computer science, materials science, or the military equivalent.
- Experience in chip design, electronic packaging, or photochemical processes.
- 2 years industrial experience
- Proven aptitude for orderly and logical thinking, statistical methods, and control charting.
- Demonstrated proficiency and theoretical understanding of the following, as they apply to polymers, and the electronics industry
 - Chromatographic methods HPLC, GC
 - Mechanical properties analysis – tensile, DMA
 - Spectroscopic methods and analysis – FT-IR, UV-Vis
 - Thermal analysis – DSC, TGA, TMA
 - Atomic spectroscopy – ICP-MS, ICP-OES
 - Electronics and circuit analysis
 - Software design - Labview, Visual Basic

Skills and Capabilities Required:

- Good interpersonal skills to recognize customer issues and problems, coupled with strong independent thinking to pursue creative solutions.
- Attention to detail and quality of work
- Good written and oral communication skills
- Safe work habits and pro-active safety attitude
- Strong multi-tasking capability
- Excellent skills, regarding the Microsoft suite of software – Excel, Word, Access
- Physically able to manipulate and transport 3-gal containers of liquid

Contact:

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