

PROCESS DEVELOPMENT TECHNICIAN

PURPOSE OF POSITION

Performs contract grinding, lapping, and polishing assignments and assists in the research and development of new surface finishing processes and tools related to grinding, lapping, and polishing of various industrial and advanced materials. Capable of innovative thinking and turning ideas into commercially viable products and processes.

CONTACTS

Reports to the Hyprez Process Development Lab Manager and has inside contacts with department engineers, managers, and the R&D team.

ESSENTIAL QUALIFICATIONS

The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. Minimum education requirement: Associate's or bachelor's degree in engineering-related fields such as Materials Science, Physics, Chemistry or Mechanical Engineering with 3 years hands-on experience in a related field and strong communication skills are preferred.



ESSENTIAL DUTIES AND RESPONSIBILITIES

Other duties may be assigned.

- Conducts set-up, maintenance, and operation of fine grinding, lapping, and polishing machines to perform contract lapping and polishing assignments.
- Studies drawings/blueprints, work orders & instructions to determine proper surface finishing consumables and equipment needed for an assignment.
- Assists in developing commercially competitive diamond finishing solutions on a variety of industrial and advanced materials.
- Verifies part specifications with metrology instruments such as micrometer, caliper, dial indicator, stylus profilometer, and optical profilometer.
- Solves basic technical problems; analyzes and interprets data; documents work in lab notebooks; prepares clear and concise technical reports.
- Demonstrates initiative and innovation in the evaluation of findings to develop new surface finishing products, equipment, and processes.
- Investigates facts related to surface finishing and material removal as a function of diamond type, size, machine kinematics, lapping plates, and slurry chemistries.
- Collaborates with R&D team by providing quantitative & qualitative research findings to improve existing products and to develop new products.
- Works as an integral part of a results-oriented team on an ongoing basis.
- Maintains laboratories in a clean and orderly manner and commits to lab safety.
- Additional duties and responsibilities may vary based upon the Hyprez Process Development Lab needs.

PROCESS DEVELOPMENT ENGINEER

ESSENTIAL QUALIFICATIONS

- Ability to read, analyze and interpret an extensive variety of technical instructions and concepts in mathematical or diagrammatic form. Ability to write reports, business correspondence, and procedure manuals. Ability to communicate effectively, orally, and in written form, with engineering staff, manufacturing operations, and management personnel.
- Ability to apply principles of scientific thinking to understand theories, collect data, establish facts, and draw valid conclusions.
- Primarily laboratory hands-on with moderate physical work - while performing the duties of this job, the employee is regularly required to sit and talk or hear; is frequently required to stand; walk and reach with hands and arms above shoulder heights, below the waist, or lifting as required throughout the workday. Occasionally lift and/or move, exerting up to 50 pounds of force; may occasionally be exposed to wet, humid conditions and corrosive chemicals as well as occasionally exposed to fumes or airborne particles.
- Primary environment: ambient room temperatures, lighting, and traditional laboratory equipment as found in a typical laboratory environment.
- The performance of this position requires exposure to the manufacturing areas where certain areas require the use of personal protective equipment such as safety glasses with side shields. Additionally, on occasion, may be exposed to wet, humid conditions and corrosive chemicals as well as occasionally exposed to fumes or airborne particles.
- Requires good understanding of microscopes, and various metrology instruments as well as the operation of various laboratory testing equipment.
- To perform this job successfully an individual should have knowledge of Microsoft Office Software: Word, Excel, PowerPoint.
- In addition to regulatory OSHA safety training required for this position, employees will receive introductory and, on an annual basis, EPA(RCRA) prescribed hazardous waste handling training.

Acknowledgment _____

Date _____

The above statements reflect the general details necessary to describe the principal functions of the occupation described and do not constitute an employment agreement between the employer and employee and are subject to change by the employer as the needs of the employer and requirements of the job change.

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