Gentherm

Job Description

Job Title: Associate Manufacturing Engineer – Azusa, CA

The Associate Process Engineer is engaged in all aspects of developing Spark Plasma Sintering-based processes for manufacture of advanced thermoelectric materials.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following (other duties may be assigned):

- Works closely with senior metallurgist on the development of processes for manufacturing TE materials using SPS system
- Runs Spark Plasma Sinterer to produce solid sintered thermoelectric materials
  - Uses recipes to change operation parameters for different powder compacts
  - Observes SPS operation to catch faults and troubleshoot failures
  - Runs data collection software
- Maintains tooling and equipment
- Develops ideas for tooling design and other improvements to SPS process
- Track samples using online spreadsheets and databases
- Assists in defining process parameters and converts these into standard operating procedures
- Manages records of performed experiments and prepares internal reports

EDUCATION and/or EXPERIENCE: Must have undergraduate degree in materials science, metallurgy, chemical engineering, mechanical engineering, or a related field. Education can be substituted with minimum 2-3 years of experience working in powder metallurgy industry. Experience in an engineering or science laboratory, metallurgical sample preparation, experience in using controlled atmosphere (glove box), chemicals, scientific instruments, and vacuum systems are desirable.

WORK ENVIRONMENT: Duties are primarily carried out in a clean room environment, requiring steel-toe safety shoes, protective pants and smock, and latex or nitrile gloves. While performing the duties of this job, the employee is occasionally exposed to moderate cold, moderate heat, adhesive compounds (e.g. epoxies, silicones), acids (e.g. hydrofluoric acid, concentrated nitric acid), and cleaning fluids (e.g. methyl alcohol, acetone). The noise level in the work environment occasionally requires earplugs.

PHYSICAL DEMANDS: The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. Large portions of the work are performed standing, with arms and hands inside a glove box. While performing the duties of this job, the employee is frequently required to use hands to handle or feel and to reach with arms. The employee is usually required to stand and often to walk, sit, stoop, kneel or crouch, talk, and hear. The employee must occasionally lift and/or move up to 40 pounds. Specific vision abilities required by this job include close vision and depth perception.

WORK AUTHORIZATION: Permanent authorization to work in the United States is required. No relocation is offered.