

**Confidential**

**JOB DESCRIPTION FORM**

<b>Job Title:</b>	Principle Materials Engineer	<b>Salary Band:</b>	4
<b>Department Name:</b>	Research & Development	<b>FLSA:</b>	Exempt
<b>Reports To:</b>	Director, Materials Development	<b>Job Class:</b>	TP

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**JOB SUMMARY:**

This position is responsible for developing novel polymeric materials for a three-dimensional imaging system, which employs Laser sintering technology.

**PRIMARY JOB FUNCTIONS:**

The Principal Materials Engineer is responsible for developing development plans and independently carries out experiments from feasibility to full product commercialization. The Principal Materials Engineer is expected to interact with the mechanical, manufacturing and Software engineers to develop and integrate new chemistry for commercialization. The Principal Materials Engineer is also responsible for the interaction with outside partners to develop and produce polymeric materials.

**JOB QUALIFICATIONS:**

**Education and Training:**

MS in Polymer Science or Chemistry, Ph.D preferred.

**Experience:**

Five years of outstanding record in polymer chemistry, independent research excellence, creativity, productivity, and problem-solving skills. Familiar with industrial techniques to develop robust processes for commercialization of novel chemistry. Good knowledge in wet chemistry and analytical techniques is required. Computer literate in Windows and Office applications. Good oral and written skills. Must demonstrate excellent interpersonal skills and initiative.

**Knowledge, Skills & Abilities:**

Ability to read, analyze, and interpret all relevant job material and pertinent accounting literature. Ability to write reports, business correspondence and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, client's, customers and the general public. Ability to formulate solid conclusions without direct supervision. Ability to partner with all cross functions and tenacity to confront all relevant performance issues.

Strong analytical skills to work on problems of diverse scope where analysis of data requires evaluation of identifiable factors. Demonstrates good judgment in selecting methods and techniques for defining problems and obtaining solutions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

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Solid knowledge of Microsoft Word and Excel. Strong communication, interpersonal and leadership abilities. Solid skills in planning and organization with an ability to plan and manage multiple projects with attention to detail. Strong communication, interpersonal, teamwork and leadership abilities. Good oral and written communications are essential to the position. He/she should also have an outstanding record in his/her discipline, creativity, productivity and problem solving skills. Solid knowledge of Polymer chemistry, polymer synthesis, organic synthesis, toughening mechanisms.

### **WORKING ENVIRONMENT /PHYSICAL DEMANDS:**

The work environment characteristics and physical demands are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

### **SAFETY REQUIREMENTS:**

- Required to observe all safety standards and rules.
- Required to report all injuries to his/her supervisor and Human Resources within 24 hours.
- Personal protection equipment must be worn as required by the job.

### **CODE OF CONDUCT**

Required to adhere to the Company's Code of Conduct as a fundamental business practice.