



JOB DESCRIPTION

Job Title:	Prod Development Engineer	Pay Grade:	PA
Department:	580-Material Engineering	Reports to:	Material & Product Development Manager
Status	Exempt/Salary	Revision Date:	March 7, 2025

SUMMARY: This position is responsible for working with Sales, Operations, and Pre-Production teams to utilize and/or improve upon existing processes in the implementation of new products. The Product Development Engineer will also use engineering and problem-solving principles to determine effective process windows during the various stage of the APQP process.

DUTIES AND RESPONSIBILITIES:

- Communicate with new and existing customers for needs assessment, follow-up, refine project requirements, and ensure design solution meet customer expectations.
- Utilize technical product and application knowledge to assist engineering and/or sales team.
- Review incoming orders for technical and functional feasibility; make suggestions to provide the customer with the ultimate solution for the application.
- Participate in technical communications with sales, customer service, marketing and manufacturing.
- Prepare proposals and product demonstrations for customers in a timely manner.
- Develop formal quotes (utilize cost modeling) in response to sales opportunities and organize responses to technical RFQ packages from customer design proposals and sales team.
- Research and analyze data such as: customer design proposal and specifications to determine feasibility and costs.
- Use Precix programs etc. to support application recommendations.
- Provide customers with requested/required information for design and approvals.
- Anticipate business changes, identify and introduce new ideas and solution to create efficiency and improved processes in operation.
- Coordinate activities concerned with technical developments including designs of experiment, controlled experiments and vendor sample requests.
- Determine most efficient production methods to be implemented on new product launches.
- Work closely with chemists to ensure sufficient material testing is performed for implementation of new products.
- Set up and execute controlled experiments and designs of experiments for new or existing products.
- Design projects must be managed to specific phases or aspects such as: Input, Output, Verification and Validation.
- Follow current company procedures for technical requests.
- Submit bill of materials for entry into the current business system by following company procedures.
- Complete engineering change notice(s) or other required documentation.
- Plan and develop experimental test programs.
- Evaluate and approve design changes, specification and drawing releases.
- Evaluate, test, and implement alternative products according to specifications and quality standards.
- Remain current on Precix compounds, technology, and applications.
- Participate in meetings, seminars, and training sessions to stay apprised of new development in field.

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- Utilize company data acquisition sources to evaluate processes and suggest/implement improvements.
- Confer with appropriate personnel to help ensure efficient production methods are implemented on new products (pre-production launches).
- Work with manufacturing plant to resolve any product issues; confer with worker in other departments to provide technical information.
- Prepare and present interim and complete project reports to senior management and others as necessary.
- Act as a lean advocate, driving and participating in regular, continuous improvement activities.
- Maintain that safety protocols and environmental impacts are reviewed to meet any applicable standards.
- Perform other duties as required or requested.

SUPERVISORY RESPONSIBILITIES:

- None

EDUCATION AND EXPERIENCE:

- Minimum of a bachelor's degree in mechanical engineering curriculum or equivalent.

QUALIFICATIONS:

Required:

- SolidWorks and / or 3D Engineering Software (Minimum 5 years).
- Proficient, with MS Word, Excel and PowerPoint.
- Must be able to work closely with Quantity, Operations, Maintenance, Machine Shop, IT, Sales/Marketing, Finance etc. and be able to communicate effectively to coordinate projects/tasks.
- Project management skills, strong organization skills and analytical skills.

Good to Have (Plus):

- Exposure and understanding of Automotive, Aerospace and Industrial Quality Standards.
- Six sigma, continuous improvement, or other problem-solving methodology is necessary for true solution implementation. Experience with lean manufacturing methods is beneficial.
- Knowledge of urethane products,

PHYSICAL DEMANDS AND WORK ENVIRONMENT:

- Work environment consists of office and manufacturing which may have exposure to noise, heat, rubber smells and chemicals. Must be able to wear protective safety equipment.
- Must be willing to travel for customer and vendor visits or tradeshow up to 10% of the time.

Annual Testing Requirements			
	Hearing Test		
	Respirator Fit Testing		
	Vision Test		
Vision Requirements			
	Close Vision (clear vision at 20 inches or less)		Ability to adjust focus

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	Distance Vision (clear vision at 20 feet or more)		Other: (specify)
	Color Vision (ability to identify & distinguish colors)	X	No special requirements
Type of Personal Protective Equipment Required			
X	Safety Glasses (as needed)		Protective Clothing
X	Hearing Protection (as needed)		Other (please specify)
	Respirators		

Physical Demands	Amount of Time Spent			
	None	Up to 1/3	1/3 to 2/3	2/3 to all
Standing		X		
Walking		X		
Sitting			X	
Use hands to handle or touch			X	
Use fingers to pinch or grasp			X	
Reach above shoulders	X			
Climb or balance	X			
Stoop, kneel, crouch or crawl	X			
Talk or hear			X	
Smell or Taste	X			
Use foot/feet to operate machine	X			
Weight of material to lift	Time Spent			
	None	Up to 1/3	1/3 to 2/3	2/3 to all
Up to 10 pounds		X		
Up to 25 pounds		X		
Up to 50 pounds	X			
Up to 75 pounds	X			
More than 75 pounds	X			

Weight of material to push or pull	Time Spent			
	None	Up to 1/3	1/3 to 2/3	2/3 to all
Up to 10 pounds		X		
Up to 25 pounds		X		
Up to 50 pounds	X			
Up to 75 pounds	X			
More than 75 pounds	X			
	None	Up to 1/3	1/3 to 2/3	2/3 to all
Repetitive Motion	X			
Tools or Equipment Used	Time Spent			
(e.g. forklift or computer, etc.)	None	Up to 1/3	1/3 to 2/3	2/3 to all
Computer			X	
Phone			X	

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Travel Required	% of Time
Domestic	10%
International	10%

The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of personnel so classified. Nothing in this job description restricts management's right to assign or reassign duties and responsibilities to this job at any time. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Precix is an Equal Opportunity Employer.