



# Product & Process Engineer Job Description

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Process Owner: Human Resources

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## Summary:

The Product & Process Engineer is responsible for overseeing the development, improvement, and optimization of both products and manufacturing processes. This role involves working closely with cross-functional teams including melt process manufacturing departments, R&D, quality assurance, and supply chain to ensure products meet quality standards, are cost-effective, and are produced efficiently.

## Primary Duties / Responsibilities: to include, but not limited to the following:

- Conduct research and analysis to understand customer needs, market trends, and technological advancements.
- Design and implement experiments to validate product concepts and optimize product performance.
- Generate creative design concepts, considering factors such as functionality, manufacturability, and cost-effectiveness
- Develop prototypes to validate design concepts and assess their feasibility.
- Collaborate with testing and quality assurance teams to ensure designs meet performance and safety standards.
- Analyze test results and iterate designs based on feedback and performance data.
- Provide training and technical support to production personnel to help understand established processes and procedures.
- Maintain accurate documentation of manufacturing processes, including process flow diagrams, standard operating procedures, and work instructions.
- Communicate effectively with team members and stakeholders to ensure alignment on design goals and requirements.

## Required Skills / Experience / Education

- Bachelor's degree in engineering (Mechanical, Industrial, or related field)
- Minimum 3 years applicable industry experience
- Proficiency designing and drafting parts using CAD software (e.g., SolidWorks, Inventor, Creo) and other relevant design tools. SolidWorks preferred.
- Experience using FEA or CFD simulation tools + traditional engineering best practices to conduct part, system, and assembly design studies.
- Proven experience in product development, process engineering, or manufacturing engineering; Focus on component manufacturing, OEM, or system integration preferred
- Good organizational skills and ability to handle multiple concurrent tasks and deadlines
- Excellent communication and collaboration skills for effective teamwork with cross-functional teams, suppliers, and clients.

## Work Environment / Schedule: (as applicable)

Open shop/office environment with high level of direct interaction with on-site production facilities. Work schedule is Monday – Friday, normally during standard business hours.

*Drake Plastics is a drug-free workplace. All applicants who receive conditional offers of employment will be subject to pre-employment drug testing.*