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JAC Recruitment Singapore

PR/097509 | Plastics Engineer (Senior / Principal / Staff Level)

Job Information

Recruiter

JAC Recruitment Singapore

Job ID

1607797

Industry

Other (Manufacturing)

Job Type

Permanent Full-time

Location

Singapore

Salary

Negotiable, based on experience

Refreshed

September 1st, 2026 05:00

General Requirements

Minimum Experience Level

Over 6 years

Career Level

Mid Career

Minimum English Level

Fluent

Minimum Japanese Level

None

Minimum Education Level

Associate Degree/Diploma

Visa Status

No permission to work in Japan required

Job Description

Our client, a leading global organization in the health, wellness, beauty, and consumer products sector, is hiring for a Plastics Engineer. The ideal candidate will possess strong industry expertise in plastics manufacturing, with hands-on experience in injection molding processes and a solid understanding of related manufacturing methods such as extrusion and blow molding.

Candidates should also demonstrate knowledge of automation and robotics applications within plastics production environments, as well as practical experience implementing Statistical Process Control (SPC) and Lean Manufacturing methodologies to drive operational excellence and continuous improvement.

Job Responsibilities:

Product Design & Development

- Collaborate with product development teams to design and optimize plastic components for performance, manufacturability, and cost efficiency.

- Apply Design for Manufacturability (DFM) principles to support robust production processes.
- Review and evaluate 3D models and 2D drawings using CAD software.
- Support product development activities from concept through production launch.

Tooling Design & Optimization

- Lead the design, development, and procurement of injection molds and prototype tooling.
- Review and approve mold designs to ensure compliance with quality, technical, and production requirements.
- Partner with toolmakers and suppliers to optimize tool performance and manufacturability.
- Drive tooling improvements to enhance productivity, durability, and cycle time efficiency.

Injection Molding Process Development

- Oversee injection molding setup, processing, troubleshooting, and optimization to achieve quality and production targets.
- Develop and refine molding parameters for various plastic materials.
- Investigate molding defects through root cause analysis and implement corrective actions.
- Execute process validation and qualification activities to ensure consistent performance.

Mold Flow Analysis

- Utilize mold flow simulation software to evaluate filling, cooling, warpage, and other molding characteristics.
- Interpret simulation results to support part and tooling design decisions.
- Identify potential manufacturing risks and recommend design improvements.
- Optimize molding processes through data-driven analysis and predictive modeling.

Supplier Management

- Manage external molding suppliers to ensure quality, delivery, and compliance with specifications.
- Conduct supplier audits, assess capabilities, and drive continuous improvement initiatives.
- Serve as the primary technical liaison for supplier-related engineering and manufacturing issues.
- Monitor supplier performance and implement strategies to improve overall effectiveness.

Material Selection & Engineering

- Evaluate and recommend plastic resins based on performance, environmental, and cost requirements.
- Maintain expertise in thermoplastic and thermoset material properties and processing behavior.
- Conduct material testing and validation to ensure application suitability.
- Support material selection decisions throughout product development and production.

Quality & Continuous Improvement

- Develop and implement quality control plans for plastic components and processes.
- Participate in FMEA and other risk management and quality improvement initiatives.
- Identify opportunities to improve efficiency, reduce waste, and lower costs.
- Support continuous improvement programs across manufacturing operations.

Technical Leadership & Support

- Provide plastics engineering expertise to manufacturing, quality, and commercial teams.
- Collaborate with internal and external stakeholders, including customers and suppliers.
- Mentor and develop junior engineers and technicians.
- Support cross-functional problem-solving and technical decision-making.

Job Requirements:

- Bachelor's degree in mechanical engineering or a related discipline, with 10+ years of injection molding and plastics manufacturing experience.
- Strong expertise in injection molding processes, mold tooling design, prototype tooling, and process troubleshooting.
- Proficiency in Moldflow/SolidWorks Plastics and CAD software such as SolidWorks, Creo, or AutoCAD.
- Excellent problem-solving, communication, and interpersonal skills, with the ability to thrive in a fast-paced manufacturing environment and interpret technical drawings including GD&T.
- Adaptable to a global work environment, with availability to support after-hours discussions and coordinate effectively with colleagues based in the United States.
- Open to frequent international travel, with expected travel commitments of up to 30%.

Interested applicant, please click APPLY or email me at jennifer.hardicar@jac-recruitment.com

Do note that we will only be in touch if your application is shortlisted.

Jennifer Maria Hardicar
JAC Recruitment Pte Ltd
EA License Number: 90C3026
EA Personnel: R1987984

#LI-JACSG
#countrysingapore

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Company Description