Super-EP (Super Engineering Plastic) Material R&D

Job Information

Hiring Company
LOTTE Chemical Corporation

Job ID
1624094

Industry
Chemical, Raw Materials

Company Type
Large Company (more than 300 employees) - International Company

Job Type
Permanent Full-time

Location
Korea, South

Salary
8 million yen ~ Negotiable, based on experience

Work Hours
Flexible hours (min. 4 hrs/day; fixed monthly hours)

Holidays
Annual paid leave, summer leave, public & special holidays

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November 26th, 2026 14:32

General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Business Level

Minimum Japanese Level
Basic Level

Minimum Education Level
Post Grad Degree (PHD/MBA etc)

Visa Status
No permission to work in Japan required

Job Description

≪Job Description & Position Highlights≫

- Lead end-to-end Super EP material development and scale-up, from formulation and extrusion process design to pilot validation and mass production optimization
- Drive innovation in high-performance polymers such as PEEK, LCP, PPA, PCT, and PPS, advancing material performance, reliability, and manufacturing efficiency
- Build advanced expertise in polymer composites, rheology, and reaction systems while contributing to global customer development and next-generation material solutions
- Opportunity to work in an international technical environment and collaborate with global customers and industry

leaders

【Job Responsibilities】
< Key Roles >

1. **Super EP product design – Scale-up**
   - Leading from specification/purpose definition → composition design → process condition derivation → pilot validation → mass production condition confirmation
   - Stabilization of extrusion process (reduction of quality variation, improvement of yield, optimization of cost/productivity), establishment of standardization system
2. **Design and optimize the performance of composite materials (resin-filler) structures**
   - Optimize special material properties by linking filler selection/surface treatment/dispersion design with matrix recipe
   - Data-driven management of tradeoffs between physical properties, processability, and reliability, and platform recipes for different purposes
3. **Design additives/reaction system and ensure process reliability**
   - Design of materials for reaction control, thermal stability/durability enhancement in high temperature processing environments
   - Strengthen customer evaluation and certification response capabilities by establishing evaluation protocols and analysis frameworks

■ Purpose of Recruitment

1. Strengthen mass production capabilities based on in-depth understanding of Super EP (PEEK, LCP, PPS, PPA, PCT) materials/processes
2. Secure references to shorten development lead time and minimize risks (quality, supply chain, cost)
3. Super EP Material Characteristics - Internalization of Process-Linked Knowledge

【Employment Type】
Permanent employee

【Salary】
Based on experience and skill level

【Working Hours】
Flexible working hours (minimum 4 hours per day, fixed monthly working hours)

【Work Location】
Korea, South

【Holidays & Leave】
Annual paid leave, summer vacation, public holidays, special leave for family events, and company anniversary holiday (if it falls on a weekday)

【Benefits & Welfare】
Social insurance, company cafeteria & shuttle bus, medical and language learning support, relocation support (subject to discussion), employee clubs etc.

Required Skills

【Required Qualifications】

- **Edu.**
  [Degree] Master's degree or higher (preferential treatment for PhD and equivalent experience)
  [Major] Chemistry, Polymers, Chemical Engineering, Materials Engineering
- **Experience**
  1. More than 5 years of experience in research and development of Super EP materials for various applications
  2. Experience in designing process conditions and scale-up for extrusion processes (≥350)
  3. Experience in designing and interpreting various reliability assessments
- **Knowledge**
  1. Polymer chemistry, rheology, and high heat-resistant polymers(physical properties and structural characteristics)
  2. Polymer Composite Properties / Process
- **Language**
  Business-level English required; Korean, Japanese, or other language skills preferred.

【Preferred Qualifications】

- Experience in joint development with global Super EP companies/Tier-1 customers
- Super EP material application extrusion process design/mass production experience (market entry reference)
- Experience in designing reaction extrusion processes

Company Description