Material Developer in Material Platform - Barrier

Your tasks

- scouting of new raw materials (polymers, fillers and additives)
- align with process and product design (meet requirements)
- know and share (appropriate, transparent documentation) the state of the art by research (literature, patents, suppliers, fairs, conferences, institutes, universities) - shared responsibility with the team "TEC Research"
- select and monitor the rubber compounds for material platform portfolio in the attributed material classes of responsibility
- create specification of a processable rubber compound meeting properties for the product (align with process and product design)
- check for substitutes or improvements of rubber compounds currently employed in terms of performance, function and sustainability
- design formulations that meet the performance criteria with proven processability (based on specifications from (material) process development)
- consider relation between material structure (morphology) and product property (material, process, product design) and align with functional material platforms of Adhesion, Durability & Abrasion, Barrier Functions, Reinforcement
- responsible for the design of experiments in terms of formulation for compounding trials, evaluation of results and documentation
- check for safe processing (compounding) in terms of ESH and chemical reactions; authorize the compounding experiments in laboratory and production mixing centres or externally
- correlate material characterization vs. product performance/testing
- select the right testing tools for material characterization (standard techniques and request to test method development and validation) including route cause analysis in terms of reclaims
- material benchmark analysis (e.g. competitors)- ensure audit-compliant specification (formulation, material parameters) and contribute to D-FMEA (support P-FMEA)
- compose raw material data request form and approval for implementing compounds into chemical recipe management system; manage material change requests and determine approval category according to trigger matrix
- ensure conformity to rules and (customer) standards as well as legislation for platform materials (e.g. FDA, ESH, REACH)- consider sustainable material solutions (renewable & recycled feedstock, degradable materials, substitutes with lower carbon footprint)
- provide material-based input to LCA (support function)

Your profile

- Bachelor Degree in Chemistry, Material Science, Polymer Science or related area or, minimum 5 years proven experience in a similar role
with lower qualifications

- project management
- cross-BA experience for > 2 years or at least good cross-BA and cross-functional understanding
Experience in Project Management (Planning, Leading, Monitoring, Risk management)
- worked in international teams for at least 3 years

Our offer

We want our employees to do well with us. That's why we offer them not only an exciting job in an international technology group, but also numerous additional offers such as flexible and hybrid working, sabbaticals and other benefits.

Ready to drive with Continental? Take the first step and fill in the online application.

About us

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2022, Continental generated sales of €39.4 billion and currently employs around 200,000 people in 57 countries and markets.

The ContiTech group sector develops and manufactures, for example, cross-material, environmentally friendly and intelligent products and systems for the automotive industry, railway engineering, mining, agriculture and other key industries. Guided by the vision of “smart and sustainable solutions beyond rubber,” the group sector draws on its long-standing knowledge of the industry and materials to open up new business opportunities by combining various materials with electronic components and individual services.