



Polymer Chemist

Full-Time, On-Site | Morena, Madhya Pradesh

Company Description

Craste pioneers sustainable innovation in high-performance materials — where waste-to-value thinking meets material novelty and grassroots impact. Using patented manufacturing technology, crop residue that would otherwise be burnt in open fields is transformed into engineered boards and agri-based packaging, free of formaldehyde and independent of timber. Sustainable innovation and industrial-grade performance are core to everything built here. The work extends beyond the factory — directly supporting farmer livelihoods and driving grassroots impact at the source of the supply chain.

Role Description

A hands-on role focused on adhesive formulation development — from lab trials and characterization through to industrial-scale implementation. The role bridges laboratory work and real-world application, with the expectation of translating formulation insights into processes that perform at production scale.

Responsibilities

- Develop and optimize adhesive formulations for binder systems used in engineered composites
- Plan and execute laboratory trials with structured documentation
- Perform material characterization and translate results into clear, actionable findings
- Maintain detailed records and prepare technical reports
- Identify gaps in formulation performance and propose data-driven improvements
- Support the scale-up of formulations from lab to production level
- Maintain lab inventory, chemical storage, and equipment in accordance with safety and operational standards
- Work closely with the engineering and product teams to align formulation outcomes with application requirements

Qualifications & Skills

- B.Sc. / M.Sc. / B.Tech / M.Tech in Chemistry, Chemical Engineering, Materials Science, or a related field
- Strong laboratory skills, including safe handling of chemicals, experimental design, and accurate data recording
- Background in R&D, including formulation development, testing, and scale-up support, is an advantage
- Knowledge of polymers, polymer blends, or composite materials, preferably in construction or industrial applications

- Familiarity with test method development, routine testing, and interpretation of results for process improvements
- Experience with polymer characterization tools such as DSC (Differential Scanning Calorimetry), TGA (Thermogravimetric Analysis), and FTIR (Fourier Transform Infrared Spectroscopy)
- Knowledge of rheology and mechanical testing methods, including peel strength, lap shear strength, and tack strength testing
- Understanding of surface chemistry and how different substrates interact with binders and adhesive systems
- Familiarity with analytical instrumentation and basic statistical methods for experimental analysis
- Ability to interpret technical literature and relevant material standards
- Understanding of scale-up considerations in an industrial context is a plus
- Strong problem-solving skills, attention to detail, and ability to work independently as well as cross-functionally
- Interest in sustainability, circular economy, and environmentally responsible material development
- Clear documentation habits and working proficiency in MS Office

Applications are considered across all experience levels. Technical aptitude, intellectual honesty, and a demonstrated willingness to learn are valued as much as years of experience.