

Advertisement for the Position of Junior Research Fellow (JRF)

18 June 2024

Applications are invited for the position of Junior Research Fellow (JRF) at Department of Chemical Engineering, IIT Hyderabad.

Name of the post	Junior Research Fellow (JRF)
Sponsoring agency	Momentive Performance Materials Private Limited
Number of vacancies	One (1)
Project Title	Adhesion of Silane Based Adhesion Promoters on Concrete Based Wet Surfaces
Job description	This project is aimed at identifying the role of silane-based adhesion promoters on modifying both the bulk intermolecular and surface interactions between the components of a surface coating. The interactions will be investigated using theory, simulations, and experiments to study the effect of silane-based adhesion promoters under varying environmental conditions. The project research components are important for materials development for industrial coatings and will involve collaboration with industry experts.
Qualifications	Essential: M. Tech. in Chemical/Polymer Engineering/Mechanical Engineering or similar Engineering/Technology disciplines or MSc Physics/Material Science/Computational Chemistry. Candidates with exceptional B. Tech Chemical/Polymer Engineering background are also encouraged to apply. Desirable: Valid GATE score. Experience with numerical methods for ODEs/PDEs. Experience in characterization techniques of polymers and colloids.
Age limit	35 years (can be relaxed based on applicant's experience and provisions)
Appointment period	24 months (extendable based on performance).
Pay	As per IIT Hyderabad norms (Rs 38,440)
How to apply	Interested candidates may send the following items to balaji@che.iith.ac.in cc maheshg@iith.ac.in with subject line as JRF-Momentive application. 1) Cover Letter, 2) CV & 3) a max 1 Page Statement of Interest. Shortlisted candidates will be contacted via email for further assessment.
Application Deadline	July 8, 2024

Additional Information: Interested candidates can contact Dr. Balaji Iyer at balaji@che.iith.ac.in for any queries related to the project and/or the position.