భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
కంది – ౫౦౨ ౨౮౪, సంగారెడ్డి, తెలంగాణ, భారత దేశం
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
कंदी – ५०२ २८४, संगारेड्डी, तेलंगाना, भारत
Indian Institute of Technology Hyderabad
Kandi – 502 284, Sangareddy, Telangana, INDIA

Advertisement for the Position of Junior Research Fellow (JRF)

Applications are invited for the Junior Research Fellow (JRF) within a project funded by Anusandhan National Research Foundation (ANRF) at the Department of Chemical Engineering, IIT Hyderabad.

Name of the post	Junior Research Fellow (JRF)
Sponsoring agency	Anusandhan National Research Foundation (ANRF)
Number of vacancies	One (1)
Project title	Formulation of Pickering emulsion ink for DIW 3D-printing to design durable porous ceramics
Job description	The objective of this research is to develop a design paradigm for printable Pickering emulsions ink for DIW 3D printing and design mechanically robust hierarchical highly porous ceramics with minimal inclusion of particles. Finally, corelate the micro-structural changes to the structural integrity, mechanical flexibility and thermal performance of the porous ceramics. The project will involve the synthesis of colloidal building blocks and formulation of printable ink. Microstructural characterization using optical microscopy, SEM, X-ray tomography, and image analysis, as well as understanding mechanical and thermal performance using UTM, rheometry, and thermogravimetric test.
Qualifications	**Essential:** M.Tech/ME degree in Chemical Engineering/Chemical Technology/Biotechnology/Material science & Engineering/ aligned engineering disciplines or MSc in Physics/Physical Chemistry with valid NET or GATE. Candidates with exceptional BTech with valid GATE in above mentioned disciplines are also encouraged to apply. **CGPA Requirement:** 6.0 (or 60%) and above in all qualifying degrees **Desirable:** Experience in wet-lab projects specifically synthesis of colloidal particles and handling polymers. Experience in characterization techniques such as optical microscopy, SEM, Rheometry.
Age limit	35 years (can be relaxed based on applicant's experience and provisions)
Appointment period	12 Months (extendable based on performance)
Pay	As per Govt. of India and ANRF norms (Rs. 37,000/- + HRA if applicable)

Application Process:

Eligible applicants must submit the application by filling the details in the google form:

https://forms.gle/GqmURZoo28DMgRP17

Upload the following documents in a single PDF while filling the application.

- Cover letter describing the background and how it will help to pursue this project.
- Latest CV
- A maximum one page statement of interest

Selection Process:

- **This is a rolling advertisement**; **the PI will evaluate and shortlist the applications received after every 15 days until suitable candidate is selected.**
- Shortlisted candidates will be informed by email about the online interview date and time.
- Joining will be immediate after selection.

For any quarries, please write to Dr. Ranajit Mondal (ranajit@che.iith.ac.in)