

#### భారతీయ సాంకేతిక విజ్ఞాన సంస్థ మైదరాబాద్ కంది - ౫ం౨ ೨೮५, 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       | Self-assembly of colloids in designing light weight solid foams  |
| Job description     | This project is on the freezing-induced self-assembly of the shape-anisotropic colloidal particles. The aim is to develop a thorough mapping of how the particle aspect ratio, particle/polymer concentration, freezing rate, and freezing direction can be manipulated in designing lightweight particulate foams. Further developing a correlation of the mechanical and thermal performance of the particulate foams to their microstructural features. The project will involve the synthesis of colloidal building blocks and their assembly. 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. Candidates with exceptional BTech 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. 370000 + HRA)  |



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भारतीय प्रौद्योगिकी संस्थान हैदराबाद कंदी – ५०२ २८४, संगारेड्डी, तेलंगाना, भारत

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#### **Application Process:**

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

#### https://forms.gle/3kST5uwxKKUKJkyLA

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.