



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Kandi, Sanga Reddy (Dist.) Telangana (State)- 502 284

Advertisement for the posts of one Senior Post-Doctoral Fellow in Sponsored Project

17th September 2025

Title of the Project	Accelerating discovery of solid forms of APIs using AI-ML tools
PI	Prof. C Malla Reddy
Department	Department Of Chemistry
Post	Senior Post-Doctoral Fellow
Funding Agency	Granules India Limited
Fellowship	Rs. 1,47,000/- + 30% HRA
Duration	12 months, duration is subject to availability of funds, extendable based on performance
Last Date to Apply	5 th October 2025
Minimum Qualifications	Ph. D. in Chemistry, Post-doctoral Experience of 3-4 yrs in crystal engineering and pharmaceutical industry experience of 4-5 yrs with focus on polymorphs/salts screening and crystallization
Desirable Qualifications	<ul style="list-style-type: none">○ To lead, design and execute material science studies mainly focused on solid-state properties, polymorphism and salt screening of new chemical entities (NCEs) using traditional and unconventional crystallization methodologies.○ A strong understanding of fundamentals of solid-state chemistry and materials science, combined with characterization and selection of polymorphs and salts based on sound scientific and thermodynamic principles.○ Analyze experimental data scientifically and provide the actionable insights into viable polymorph and salt selection based on stability stress study and crystallization behavior○ Strong interpretation and characterization of solid material behavior using advanced solid-state characterization techniques including PXRD, DSC, TGA, Solid-state NMR, FT-IR, RAMAN, DVS and PLM/HSM.○ Sound knowledge on conducting thorough patent and non-patent literature searches to assess the patentability of new chemical entities (NCEs), formulations, and processes, including prior-art reviews and technology landscaping.○ Continuously monitor and adopt emerging trends, technologies, and best practices in material science and solid-state chemistry, applying these insights to advance innovation and excellence in

	pharmaceutical solid-state research and development.
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Application Process:

Eligible applicants should send the following:

1. Latest CV, including the names and contact details of at least two referees.
2. Ph.D. thesis abstract along with two best publications.
3. Experience certificates to prove minimum qualification.
4. Send your application to Prof. C. Malla Reddy (cmreddy@chy.iith.ac.in with a cc to cmallareddyps@gmail.com) with your CV attached.
5. Subject of the email: Senior Post-doctoral Fellow Application

Selection Process:

- The PI will evaluate and shortlist the applications.
- Shortlisted candidates will be called for an online interview. Shortlisted candidates will be informed by email about the interview date and time.
- Candidates with prior relevant experience will be given preference. Joining will be immediate after selection.
- The selection committee will recommend the final candidate based on eligibility and suitability for the advertised position.
- The position duration is subject to the availability of funds.



Dr. C Malla Reddy,
Professor,
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IIT Hyderabad