

Junior Research Fellow for Studying H₂ Production from Partial Oxidations over Nanocatalysts

About the Position:

The Green Catalysis Lab at IIT Gandhinagar, headed by Prof. Abinaya Sampath, is looking for a junior research fellow interested in working on experimental heterogeneous catalysis. The candidate will be involved in nanocatalyst synthesis, characterisation, and catalyst testing in the laboratory-scale reactor using kinetic and spectroscopic tools.

Minimum Qualifications:

Graduate (B.E./B.Tech./equivalent) in Chemical/Materials Engineering or allied fields with at least 60% aggregate marks or equivalent C.G.P.A. and valid NET/GATE score **(OR)** Master's degree (MSc/equivalent) in Science from allied branches with at least 60% aggregate marks or equivalent C.G.P.A. and NET/GATE qualification

Additional Qualifications:

Graduate (M.E./M.Tech./equivalent) in Chemical/Materials Engineering or allied fields with at least 60% aggregate marks or equivalent C.G.P.A. Essential qualifications/experience will follow the funding agency's norms as below:

Post Graduate Degree in Basic Science OR Graduate I Post Graduate Degree in Professional Course selected through a process described through any one of the following:

(a) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.

(b) The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER etc.

Desirable Skills:

- Experience with catalytic measurements is highly preferred
- Working knowledge of wet synthesis techniques for nanomaterials, characterisation techniques
- Track record of publications/conference presentations; self-motivated, perseverant person with solid project management and communication skills

Job Description:

- The candidate shall be required to work on nanocatalyst synthesis, characterisation, and measurement of catalytic performance
- Publish high-quality journal articles and attend international conferences; Strictly follow laboratory safety practices

Note that the list of items in the job description is not exhaustive.

Duration: Initial appointment is for one year

Remuneration: 37,000 INR per month + 11,100 INR HRA (No HRA will be paid if the campus housing is availed)

Application Procedure:

Candidates must fill out the online [form](#)

Application Deadline: Three weeks from the date of advertisement