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**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**  
**Department of Chemical Engineering**

Dated: 23/09/2024

**ADVERTISEMENT TO FILL UP PROJECT POSITIONS\***

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the principal investigator (Name: Prof. Prakash Biswas), Department of Chemical Engineering, Indian Institute of Technology, Roorkee.

1. Title of project: "**Direct conversion of CO<sub>2</sub> to formic acid over Nickel-based Metal-Organic Frameworks (MOFs) catalysts**"
  2. Sponsor of the project: Science and Engineering Research Board (SERB)
  3. Project position(s) and number: JRF, 01
  4. Qualifications: CSIR/UGC-NET/GATE qualified M.Tech./M.E. or equivalent in Chemical Engineering/Chemical Technology /Allied disciplines in Engineering and Sciences. B.Tech./B.E. in the above disciplines with a minimum CGPA of 8.0/10 graduated from a Centrally Funded Technical Institute (CFTI) with a valid GATE score are also eligible. CSIR/UGC-NET/GATE score should not be more than 5 Years old.
  5. Emoluments: JRF 37,000 /- PM + HRA (as per institute rules)  
SRF 42,000 /- PM + HRA (as per institute rules)
  6. Duration: Up to the duration of the project (**tentatively three years, subject to availability of funds and satisfactory progress by candidate**)
  7. Job description: JRF will be responsible for computational tools for catalyst screening, synthesizing and characterizing, and optimizing reaction conditions for the selective hydrogenation of CO<sub>2</sub> to formic acid.
1. Candidates, before appearing for the interview, shall ensure that they are eligible for the position they intend to apply.
  2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
    - Application in a plain paper with a detailed CV including chronological discipline of degree/certificates obtained.
    - Experience including research, industrial field and others.
    - Attested copies of degree/certificate and experience certificate.
  3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience

Prakash Biswas  
23/09/2024

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23/9/2024