

Junior Research Fellow (JRF) Opening under Anusandhan National Research Foundation (ANRF) Sponsored Project, Department of Chemical Engineering, Harcourt Butler Technical University (HBTU), Kanpur

Applications are invited from motivated and eligible candidates for the position of **Junior Research Fellow (JRF)** in a research project funded by the **Anusandhan National Research Foundation (ANRF)**, Government of India, under the **Inclusivity Research Grant (SC)** scheme. The details of the project and required qualifications are as follows:

Title of the Project:

Development and Characterization of Energy Storage Material Derived from Pyrolytic Char of Oily Petroleum Sludge

Principal Investigator:

Dr. Bineeta Singh, Assistant Professor
Department of Chemical Engineering, HBTU Kanpur

Position:

Junior Research Fellow (JRF) – 1 Post

Fellowship:

Rs. 37,000/- per month + 18% HRA (as per ANRF norms)

Essential Qualifications:

- M.Sc. in Chemistry/Materials Science/Environmental Science
or
M.Tech./M.E. in Chemical Engineering/Materials Science/Environment Engineering/Nanotechnology or related disciplines
- Minimum 60% marks or equivalent CGPA in qualifying examination
- CSIR-UGC-NET/GATE qualified (as per ANRF eligibility)

Desirable Qualifications:

- Research/project experience in materials synthesis or energy storage devices
 - Hands-on experience with material characterization techniques (e.g., XRD, SEM, TGA, BET, etc.)
 - Basic understanding of environmental remediation or waste-to-resource technologies
 - Good technical writing and communication skills
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Duration of Appointment:

The position is purely temporary and co-terminus with the project. The initial appointment will be for **two year**, extendable based on performance and availability of funds, up to the duration of the project (**36 months**).

Job Description:

- Synthesis of energy storage materials from petroleum sludge-derived char
 - Material characterization using various analytical techniques
 - Fabrication and testing of energy storage devices
 - Data analysis, technical report preparation, and documentation
 - Supporting project-related administrative work
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How to Apply:

Interested candidates should send their **detailed CV** including academic qualifications, experience, publications (if any), and a **cover letter** explaining their motivation for applying, in a **single PDF file** to:

Dr. Bineeta Singh

bsinghch@hbtu.ac.in , bineetasingh15@gmail.com of PI
[+91 9458029951, +91 6306833954]

Last date to apply: 10th August 2025, 5 p.m.

Shortlisted candidates will be informed via email and called for interview (online/offline). No TA/DA will be paid for attending the interview.