



भारतीय प्रौद्योगिकी संस्थान इंदौर

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IIT Indore

Dated: 14-07-2022

Advertisement for a **JRF** Position in **DST Project**

Applications are invited from motivated and eligible candidates for a **Junior Research Fellow (JRF)** position in the research project on *Integrated Clean Energy Materials Acceleration Platform: Storage MAP* funded by the **Department of Science and Technology**.

This project primarily focuses on fabricating all-solid-state rechargeable batteries based on the lithium metal anode and free-standing composite solid electrolyte membranes. JRF hired in this project is expected to conduct experimental work on the fabrication and electrochemical characterization of all-solid-state batteries.

Eligibility: *MSc/ MTech in Physics/ Chemistry/ Materials Science/ Nanotechnology/ Ceramics Engineering. Candidates who have qualified NET/ GATE will be given preference, and candidates with expertise in any of the followings are strongly encouraged to apply:*

- *Synthesis of inorganic (oxides, phosphates, or sulfides) materials.*
- *Experience in crystal structure and microstructure determination using powder XRD, SEM, TEM, Raman spectroscopy, etc.*
- *Familiarity with impedance spectroscopy.*
- *Basic electrochemistry characterization.*

Stipend:

Junior Research Fellow (JRF) will be paid a **consolidated** salary of Rs. 31,000/- per month for the first 2 years and Rs. 35,000/- per month for the 3rd year based on the salary structure of the DST for JRF/ Project Associate-1.

Conditions:

(i) House Rent Allowance (HRA): JRF *may* be provided accommodation based on availability, and those residing in accommodation provided by the institute will not be eligible for drawing HRA. Wherever provision of hostel accommodation is not possible, HRA may be allowed to JRF as per DST norms applicable in the city/location where they are working. The fellowship amount may be taken as the basis for calculating the HRA.

(ii) The appointment is initially for one year and could be extended for two additional years on mutual consent. **The candidate may be absorbed for the regular PhD position once they qualify the interview/screening by the MEMS department admission committee.**

(iii) Interested candidates are requested to submit a detailed CV to **Dr. Sunil Kumar** (Associate Professor, Metallurgy Engineering and Materials Science, IIT Indore) via e-mail: **sunil@iiti.ac.in** by **14th August 2022**. Information relevant to NET/GATE qualification, including a year of passing and validity, discipline, score, marks, all India Rank, and the number of candidates, must be mentioned in the CV. Please use "*Application for JRF position under DST-ICMAP project*" as the subject of your email.

(iv) Only shortlisted candidates will be intimated by email for the online interview.