

**DEPARTMENT OF PHYSICS  
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

**ADVERTISEMENT FOR POST DOCTORAL FELLOWSHIP POSITION**

Ref. No - PHY/PDF/ESL-1

Date: 27/10/2020

The Department of Physics at the Indian Institute of Technology (IIT) Roorkee invites applications from outstanding and enthusiastic researchers for postdoctoral position under the mentorship of **Prof. Yogesh K. Sharma**, on “**Development of High Performance Cathode Material for Cheap and Cost Effective Rechargeable Sodium-ion Batteries**”.

Last date for submission of application is **29 November, 2020**.

The prospective candidate is expected to have strong background in the area of condensed Matter Physics/Material Science with special relevance to the Solid State Ionics. Candidate should be passionate about working on cutting edge research leading to high impact publication. Other research activities may include participating in research discussion, mentoring students and class-room activities.

**Qualification and Experience:**

The prospective candidate should have good publication record in SCI based journal. Candidate should have:

**Essential qualification:** PhD in the area of Condensed Matter Physics/Material Science/Chemistry/Chemical Engineering/Mechanical Engineering with relevant experience in fabrication and testing of advanced batteries cells/packs.

**Desirable:** Hands-on experience and a good understanding with electrode material synthesis and characterizations like XRD, FESEM, XPS, TEM and FTIR including electrochemical characterization like CV, EIS, Galvanostatic Charge-discharge.

**Duration and Fellowship amount:**

The duration of the fellowship will be of two years extendable by one more year, if necessary. The candidate is expected to join the department as soon as offer letter has been released. The fellow will receive a consolidated fellowship as below in addition with the contingency grant of Rs. 50,000/- per annum.

First & Second Year: Rs. 55,000/- per month; Third Year: Rs. 60,000/- per month

**How to Apply:**

Candidates can apply with cover letter, curriculum vitae, list of publications, research statement describing past research and plans for future research by both regular and e-mail, to:

Professor and Head

Department of Physics

Indian Institute of Technology Roorkee

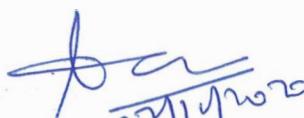
Roorkee - 247667

INDIA

Email: [head@ph.iitr.ac.in](mailto:head@ph.iitr.ac.in) (and copy to [yogesh.sharma@ph.iitr.ac.in](mailto:yogesh.sharma@ph.iitr.ac.in) Phone: +91-1332-284861 (office))

**Notes:**

- (i) All the postdoctoral fellows (PDF) will be registered as IIT Roorkee students for availing the facilities of accommodation, hospital, medical insurance scheme, computer center, library, sports etc.

  
**Head, Dept. of Physics  
I.I.T., Roorkee**

- (ii) The candidate called for discussion/interview will be reimburse Bus/Train (II AC) fare from their place of residence/work and back by the shortest route within India on production of train/bus tickets of PNR number.

Or

Interview will be conducting online.

**About The Research group:**

Please visit: [https://www.iitr.ac.in/~PH/Yogesh\\_Kumar\\_Sharma](https://www.iitr.ac.in/~PH/Yogesh_Kumar_Sharma) and  
<http://faculty.iitr.ac.in/~yogeshfph/>

**About The Department:**

Please visit: <https://www.iitr.ac.in/departments/PH/pages/index.html>

**About the Institute:**

Please visit: [www.iitr.ac.in](http://www.iitr.ac.in)



Professor & Head  
Department of Physics  
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**Head, Deptt. of Physics**  
**I.I.T., Roorkee**