



भारतीय प्रौद्योगिकी संस्थान रुड़की Indian Institute of Technology Roorkee

HYDRO AND RENEWABLE ENERGY DEPARTMENT

Advt. No.: HRED/P-75/ACB/255

Dated: Feb. 23, 2023

ADVERTISEMENT FOR POST DOCTORAL FELLOWSHIP POSITION

The Department of Hydro and Renewable Energy at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for a postdoctoral position under the mentorship of **Prof. Amit C. Bhosale** focused on “**MXene Decorated Low-Cost Metal Electrocatalysts for Superior Hydrogen Production from Water Splitting**”.

The prospective candidate is expected to have a strong background in the area of electrochemistry, with experimental skills of nanomaterial electrocatalyst synthesis and their advanced material characterization techniques. The candidate should have hands-on experience on potentiostat, 3-electrode cell, H-cell and detection of gases by Gas Chromatography.

Last date for the submission of application by email is: March 10, 2023

Essential qualification:

- Ph.D.* in chemistry from any of the premier or government institutes of the country, with thesis work on electrocatalyst development for water electrolysis application.
- Knowledge and experience of characterization techniques for nanomaterials e.g. SEM, TEM, XPS, FTIR, XRD.
- Must have published at least 4 research papers as first author on the mentioned topic in international peer-reviewed journals

Desirable qualification:

- fabrication of membrane electrode assembly and cell characterization
- should have knowledge of catalyst synthesis for OER and CO₂ reduction

* *Candidates who have recently submitted their thesis are also eligible to apply subject to the condition that they should furnish the proof of the award of Ph.D. degree at the time of interview at IIT Roorkee if shortlisted*

Duration and Fellowship amount:

The duration of the fellowship will be 2 years extendable by one more year. The Fellowship may be terminated by either side by giving one-month notice. A consolidated fellowship of Rs. 55,000.00 per month for the first 2 years and Rs. 60,000.00 per month for the third year and a contingency of Rs. 50,000.00 per annum will be awarded to Post-Doctoral Fellows.

How to Apply:

Candidates should clearly mention Advt. No. and date with title of the position applying for with a covering letter, curriculum vitae, list of publications, research statement describing past research experience and future research plans in a single PDF file named as “**Candidate Name_Institute of Ph.D. Degree_Year of Ph.D.**” by e-mail, to:

Head,

Hydro and Renewable Energy (HRED)
Indian Institute of Technology Roorkee
Roorkee – 247667, Uttarakhand, INDIA

Email: head@hre.iitr.ac.in and copy to achbhosale@hre.iitr.ac.in

Tel (O): (+91 1332) 285165; 4938

Notes:

- (i) The applications are to be submitted through email only, **no hard-copy** of the application is required.
- (ii) **Applications received after the last date (i.e. March 10, 2023) shall not be considered.**
- (iii) Post-Doctoral Fellows will be registered as students and may avail facilities of hostel accommodation, library, computer center, available hospital facilities etc. Depending upon the availability, they may get shelter accommodation also. They will be entitled to 2.5 days of leave per completed calendar month. No carry forward for leave will be allowed beyond a calendar year. PDF positions are purely temporary.
- (iv) The candidate called for discussion/interview will be reimbursed Bus/Train (2nd AC) fare from their place of residence/work and return.

For further details about the Department and the Research group can be found at the below links:

Department of Hydro and Renewable Energy (HRED):

<https://iitr.ac.in/Departments/Hydro and Renewable Energy Department/Home.html>

PI's profile: https://www.iitr.ac.in/~HRE/Amit_Bhosale



Prof. M. K. Singhal

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