



भारतीय प्रौद्योगिकी संस्थान रुड़की Indian Institute of Technology Roorkee

HYDRO AND RENEWABLE ENERGY DEPARTMENT

Advt. No.

Dated: 8 Feb 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. Sonal K. Thengane** focused on “**Oxidative torrefaction and densification of residual biomass for co-firing**”.

The prospective candidate is expected to have a strong background in the area of thermochemical conversion of biomass, with experimental skills on characterization of biomass and the solid, liquid, and gaseous products obtained from processing of biomass. Apart from research activities under the above project, the candidate will be entrusted with other projects and academic responsibilities as deemed fit by the PI and the department.

Last date for the submission of application by email is: 5 March 2023

The prospective candidate should have following qualifications:

Essential qualification:

Ph.D. from any of the premier or government institutes of the country in any department, with thesis work on any of the thermochemical biomass conversion processes (gasification, pyrolysis, torrefaction, carbonization, combustion) or pelletization of biomass.

Knowledge and experience of characterization techniques for biomass, biochar, pellets, tars, and flue gas.

Must have published at least 1 research paper as first author on any of the above topics in a Q1 international peer-reviewed journal with impact factor > 4.

Desirable qualification:

Knowledge of any of the process modelling and simulation software (Aspen Plus, Matlab, CFD) or LCA software (GaBi, openLCA).

Candidates must mention their PhD thesis title and most relevant publications (maximum 3) clearly in their application and cover letter.

** 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 15 months 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 per month for the first 2 years and Rs. 60,000 per month for the third year and a contingency of Rs. 50,000 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** sonalt@hre.iitr.ac.in)
Tel (O): (+91 1332) 285213 / 5913; 5167

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., 5 March 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

OR

Interview/discussion will be conducted online in genuine case.

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

Department of Hydro and Renewable Energy (HRED):

<https://www.iitr.ac.in/departments/HRE/pages/Home.html>

PI's profile: https://www.iitr.ac.in/~HRE/Sonal_K_Thengane <https://www.bwrl.iitr.ac.in>

Head,

Department of Hydro and Renewable Energy (HRED)

IIT Roorkee, Roorkee