



भारतीय प्रौद्योगिकी संस्थान रुड़की
Indian Institute of Technology Roorkee

Department of Physics
Indian Institute of Technology Roorkee
Roorkee-247 667, Uttarakhand, India

Advt. No: Phys/PDF/1724

Dated: 30. December, 2021

ADVERTISEMENT FOR POST-DOCTORAL FELLOWSHIP POSITION

The Department of Physics at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for postdoctoral position under the mentorship of **Prof. Vipul Rastogi** on the project **“Optical waveguide grating based sensors and wavelength filters”**

The prospective candidate is expected to have a strong background in the area of Guided-wave Photonics and have thorough experience on design and modelling of guided wave optics and optical components and devices. The postdoc is also supposed to have a working experience on design and modelling of optical waveguides and gratings. The postdoc will be working on the design and modelling of devices and components such as sensors and wavelength filters based on gratings in optical waveguides.

Last date for the submission of application is 15 January, 2022.

Minimum Qualification and Experience:

Essential: PhD in Physics/Photonics/Electronics or equivalent.

Desirable: Experience in modelling and simulation of optical waveguides.

Candidates who have recently submitted their thesis are also eligible to apply subject to the condition that they will 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 of two years, extendable to one more year, if necessary. The candidate is expected to join the Department as soon as offer letter has been released. 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 Fellow.

How to Apply:

Candidates can apply with the following

1. Cover letter addressed to
Head, Department of Physics,
Indian Institute of Technology Roorkee
Roorkee – 247667 Uttarakhand INDIA
Kind Attn.: **Prof. Vipul Rastogi**
2. Curriculum vitae
3. List of publications (with the most significant publications highlighted)
4. Research statement describing past research and plans for future research in the context of the title of project
5. by e-mail (Subject Line: Application for Postdoc position in **“Optical waveguide grating based sensors and wavelength filters”**)

All the documents arranged in **one PDF file** named as “Candidate Name_Institute of PhD Degree_Year of PhD”) should be sent by e-mail to:

Email: physics_office@iitr.ac.in (and copy to vipul.rastogi@ph.iitr.ac.in)

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.

(ii) The candidate called for discussion/interview will be reimbursed Bus/Train (2nd AC) fare from their place of residence/work and return by the shortest route within India on production of train/bus tickets or PNR number. Interviews can also be held online using some video-conferencing tool.

About the Research Group:

Please browse the following links: <https://www.iitr.ac.in/~PH/vipulfph>

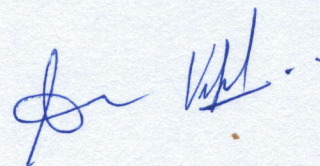
About the Department:

The Department of Physics at IIT Roorkee from its modest beginning in 1960 has now grown in to an active center of quality teaching and research. Today it stands as one of the leading departments in the country, well known for its excellence in teaching and research. The Department runs five-year integrated M.Sc. (Physics), two year M.Sc. (Physics) and M. Tech. (Solid State Electronic Materials) programs apart from catering the teaching of core Physics courses to undergraduate engineering students.

The faculty of the Department are actively engaged in different areas of research viz. Atmospheric and Space Physics, Atomic and Molecular Physics, Condensed Matter Physics, Nuclear Physics, Optics and Theoretical High Energy Physics.

The Department organizes national and international conferences from time to time. The research activity in the department is well recognized by CSIR, AICTE, DST and ISRO and a number of research projects funded by these agencies are always in progress in the department.

For more details, please visit: <https://www.iitr.ac.in/departments/PH/pages/index.html>

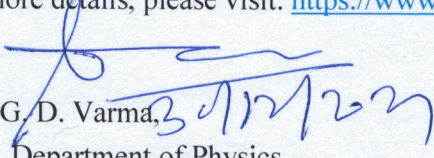


About the Institute:

IIT Roorkee has its roots in the Roorkee College, which was set up in 1847. It was renamed as the Thomason College of Civil Engineering in 1854. The College laid the foundation of modern engineering education and the use of Civil Engineering practices in the infrastructure development of the country.

The irrigation infrastructure in the form of dams and canals, roads and highways, railway, bridges, etc. in the country, all have been the outcome of the engineering education imparted in this, the only engineering institution in the country, at that point of time. It got elevated as the first technical University of the country in 1948 through the University of Roorkee Act, 1947 passed by the United Provinces Legislature. University of Roorkee also became the first institution in the country to offer postgraduate programs engineering and technology in 1955. On September 21, 2001, the University was converted into an IIT by the Government of India through an Act of Parliament and recognized as an Institution of National importance. Roorkee is the entry point of Uttarakhand state. It is on the way to Mussoorie and Haridwar from Delhi. IIT Roorkee has a beautiful green campus. Various sports facilities including Billiards, Swimming, Hockey, Football, and Yoga are available in the Campus. A good C.B.S.E. School is available in the Campus which provides admission to the children of newly joining faculty members throughout the year.

For more details, please visit: <https://www.iitr.ac.in>


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