



भारतीय प्रौद्योगिकी संस्थान रूड़की
Indian Institute of Technology Roorkee

**DEPARTMENT OF PHYSICS,
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE - 247667, UTTARAKHAND, INDIA**

Advt. No.: Phys/PDF/20-21/1

Dated: 04 January 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. Sumanta Sarkhel** focused on “**Investigation of Earth's Upper Atmosphere using Optical Imaging Techniques**”.

The prospective candidate is expected to have a strong background in the area of Atmospheric/Space Physics specially related to Space Weather and Earth's Ionosphere. Prior experience in working with airglow imagers and knowledge of image analyses using MATLAB or IDL will get an added advantage. The candidate should have experience of working on cutting edge research and must have publications in reputed peer reviewed journals. The selected candidate will work on the newly installed allsky multi-wavelength imaging system (557.7 and 630.0 nm filters) at the Indian Astronomical Observatory (IAO), Hanle, Leh Ladakh (32.78° N, 78.96° E) for the investigation of the impact of space weather on Earth's ionosphere.

Last date for submission of application is **22 January, 2021**. Department intends to fill the said position by 28 February, 2021.

Minimum Qualification and Experience: Ph.D. in Physics/Atmospheric Physics/Space Science
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 is up to 31 December 2021. The fellow will receive a consolidated fellowship of ₹ 55,000/- per month in addition to the contingency grant of ₹ 50,000/-per annum.

How to Apply:

Candidates can apply with cover letter, curriculum vitae, list of publications (with the most significant publications highlighted), research statement describing past research and plans for future research using the newly installed imager by e-mail, to:

P.T.O.

Professor and Head
Department of Physics,
Indian Institute of Technology Roorkee
Roorkee - 247667
Uttarakhand
INDIA

Email: physics_office@iitr.ac.in (and copy to sarkhel@ph.iitr.ac.in ; sumantasarkhel@gmail.com)
Phone: +91-1332-284817 (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 centre, library, sports etc.

(ii) The candidate called for discussion/interview will be reimburse 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 of PNR number.

About the Department:

The Department of Physics 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. The Institute provides 100% accommodation to faculty members. 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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