

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

Dated: 03 June 2022

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position as per the details given below for the research project under the principal investigator (Prof. Sumanta Sarkhel), Department of Physics, Indian Institute of Technology Roorkee.

1. Title of project: **Investigation and characterization of ionospheric two dimensional plasma structures over the geomagnetic low-mid latitude transition region using Artificial Intelligence and Machine Learning**
2. Sponsor of the project: Science & Engineering Research Board (SERB), DST
3. Project position(s) and number: **Research Associate-III - 01**
4. Qualifications: **Ph.D. in Space Physics/Physics/Computer Science/Applied Mathematics/Statistics**
5. Emoluments: ₹ 54,000 + HRA (as per institute rule)
6. Duration: **One year (extendable up to three years after satisfactory progress in each year)**
7. Job description: **To carry research work of the project. The work entails labeling of data, data preprocessing, and experimentation using CNNs and other architectures. Expertise in programming is essential: Python, Tensorflow/Keras, and other relevant libraries and tools.**
8. Candidate should have knowledge in Deep Learning and Machine Learning.
9. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
10. Candidates desiring to appear for the Interview should submit their applications with the following documents (*in a single pdf file*) to the Principal Investigator through email (sarkhel@ph.iitr.ac.in) only. The deadline for submission is extended to **31 July 2022**.
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
11. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
12. Preference will be given to SC/ST candidates on equal qualifications and experience.
13. Please note that no TA/DA is admissible for attending the interview.

The interview will be held on an online meeting platform only. The link will be sent to the shortlisted candidates.

Tel: +91-1332-284817

Email: sarkhel@ph.iitr.ac.in

APPROVED

[Signature]
21/6/2022
डीन (सिक)/(Dean SRIC)
भा. प्रौ. सं. रुड़की/IIT Roorkee

[Signature]
Sumanta Sarkhel
Prof. Sumanta Sarkhel
(Principal Investigator)

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

[Signature]
31/6/2022
31/6/22