



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore  
Department of Physics  
Khandwa Road, Simrol, Indore – 453552, India

IIT INDORE

**Research Associates and Visiting Researchers under DAE-DST, Govt. of India sponsored Project entitled “Indian participation in the ALICE experiment at CERN”**

Date: 04 April 2022

The Indian Institute of Technology Indore invites applications for Research Associates (RA) and Visiting Researchers for its High Energy Physics Experimental group in ALICE experiment at the Large Hadron Collider (LHC), CERN, Geneva. The RA positions are initially for two years duration and maybe extended subjected to satisfactory performance of the candidates.

**No. of RA positions:** Two (2)

**Application End Date:** This is a rolling advertisement. Applications will be scrutinized as and when we find suitable applicants. First selection will be made with a last date of 05 June 2022.

**Essential Qualifications:** Ph.D. degree in high energy nuclear/particle physics. Candidates who have submitted their Ph.D. thesis can also apply.

**Research Areas:** The experimental high energy physics group at IIT Indore is involved primarily in the physics analysis using the ALICE data at the Large Hadron Collider (LHC), CERN. The main physics interest is heavy-flavour and resonance production, particle spectra, event topology studies in proton-proton and nuclear collisions at the LHC energies. In the ALICE detector upgrade for RUN 4, we plan to be involved in the physics simulation studies and detector R&D of Forward Calorimeter (FoCal). **Candidates with experience of detector simulation will be preferred for the FoCal activities.**

**Desirable:** Experience in data analysis and/or detector simulation/hardware for high energy physics experiments.

**Fellowship:** As per existing rules of the Department of Science and Technology (DST), Govt. of India and based on post-Ph.D. experience. RA– I: Rs. 47,000/- per month; RA– II: Rs. 49,000/- per month and RA– III: 54,000/- per month. HRA as applicable for the city of Indore, if hostel facility is not available.

The above positions are purely temporary for a period of two years and extendable to a maximum tenure of three years upon satisfactory academic performance, although the project duration is 5-years. It would, therefore, not confer any right/ claim, implicit, or explicit for consideration/ absorption against any position at IIT Indore.



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### How to Apply:

Applicants should send their applications along with the following documents [single PDF file] by email to:

Prof. Raghunath Sahoo <raghunath@iiti.ac.in>

1. A detailed academic CV, list of publications, relevant experience certificate(s), if any, and names of two academic referees.
2. A statement of research interest.
3. Copies of all educational certificates.
4. Two letters of references.

The candidates should arrange the letters of references to be sent directly to Prof. Raghunath Sahoo through email [raghunath@iiti.ac.in] within two weeks of the date of application. The shortlisted candidates will be interviewed through **online video conferencing** before the final selection is made. The positions will be filled immediately.

For any clarification, please contact on the above-mentioned email.  
*No TA/DA will be paid to the candidate for joining the position.*

Visiting Researcher: Consolidated fellowship as decided by the selection committee looking into the candidate research experience.

### Address for Correspondence:

Professor Raghunath Sahoo  
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