



Indian Institute of Technology Indore

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Khandwa Road, Simrol
Indore 453552 (M.P.) India

Dr. Ranveer Singh

Assistant Professor
ranveer@iiti.ac.in
<https://ranveeriit.github.io/>

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Advertisement for Postdoctoral Research Associate

Applications are invited from motivated and eligible candidates for the position of Postdoctoral Research Associate in a DST-funded Research Project titled "Towards polynomial-time algorithm(s) for the permanent of some classes of matrices". By definition, matrix determinant and permanent are two very similar quantities of a square matrix, but computationally they are extremely different. Matrix determinant is a polynomial-time solvable problem; that is, it is in class P. Whereas matrix permanent is a #P-complete problem. The question we will be mostly focusing on is to find some classes of matrices whose permanent can be expressed as the determinant of some polynomial-size matrix.

Eligibility: Ph.D. in Mathematics/ Mathematics and Computing/ Computer Science and Engineering with publications in reputed journals.

Stipend: Consolidated INR 58, 000 per month.

Duration: Initial appointment will be for three months.

How to Apply: Interested candidates are requested to submit a detailed CV to Dr. Ranveer Singh, Department of Computer Science and Engineering, Indian Institute of Technology Indore, via email: ranveer@iiti.ac.in with the subject line "Application for Postdoctoral_Research Associate" latest by March 20, 2025. The CV should include details of a list of all publications, two best research papers, and all the self-attested marksheets. Incomplete applications will be rejected.

Only shortlisted candidates will be called for an interview. Selected candidates will be intimated by email for an interview.