



# Indian Institute of Technology Jodhpur

## Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2022-23/04

22 April 2022

### Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the institute Project at this Institute. The position is purely temporary, initially for a period of 01 Year, and extendable for a maximum period of 5 years but co-terminus with the duration of the project, on contractual basis with consolidated pay. The requisite qualification, experience and others details are given below:

1.	Project No.	S/DRDO/SKS/20210125
2.	Project Title	Quantum Security of Cryptographic Hash Functions
3.	Name of the Project Investigator	Dr. Somitra Kumar Sanadhya
4.	Duration for initial appointment	01 Year (An appointment letter will be issued as per available funds in the project)
5.	Name of the Post	Post-Doctoral Fellow
6.	Post	01
7.	Consolidate Pay	If thesis submitted - Rs. 54,000/-+HRA (As per institute norms) If thesis awarded - Rs. 60,000/- +HRA (As per institute norms)
8.	Minimum Qualification and Experience	<u>Eligibility:</u> PhD thesis in the relevant area (quantum algorithms and their applications to cryptography). Candidate who have submitted their thesis may also apply.  <u>Desirable Experience:</u> Any publication in an event organized by IACR (International Association for Cryptography Research).
9.	Job Description	The candidate is expected to lead a research project on studying security of cryptographic hash functions against quantum adversaries in different settings (with or without QRAM, with or without quantum queries to the underlying primitives, restrictions on the size of the quantum circuit etc.) The work will require development of algorithms breaking various security properties of hash functions (such as preimage resistance, collision resistance etc.).
10.	Maximum Age	Below 40 Years
11.	Brief description of Project	Study the security of cryptographic hash functions in the presence of quantum adversaries.

The candidates possessing the requisite qualification and experience should apply through the ONLINE process up to **06 May 2022**. The candidates are advised to send a soft copy of the application with all relevant documents to [recruitment\\_rnd@iitj.ac.in](mailto:recruitment_rnd@iitj.ac.in) (*Please mention the advertisement number in the subject line of the email*). *No need to send a hard copy.*

### General Instructions to Applicant(s)

1.	The post(s) is purely temporary and contractual for a period of 01 Year (Appointment letter will be issue as per available fund in the project ), and extension based on satisfactory performance, but co-terminus with the duration of the project
2.	Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected.
3.	Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature.
4.	Institute reserves the right to: a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or Skill Test, Interview.
5.	The Institute shall verify the antecedents or documents submitted by a candidate at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated.
6.	Higher initial pay may be given to exceptionally qualified/deserving candidate.
7.	No TA/DA shall be paid to the candidates for attending the interview.
8.	No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.
9.	Canvassing in any form will be a disqualification.
10.	No interim correspondence will be entertained.
11.	No need to send hard copy.

Officer In-charge  
Research & Development