



Recruitment Advt. No: IITDH/R&D/EE/RJP/Project\_Recruitment/8.40/2020-21

24 February 2021

IIT Dharwad is an Institute of National Importance created by an Act of Parliament in 2016. IIT Dharwad has been steadily establishing its operations in its present campus while at the same time, master plan development and construction of permanent campus infrastructure are also in progress. The Institute is employing bright young and accomplished faculty and staff members. To cater the Institute's temporary requirement under a project in the Department of Electrical Engineering; IIT Dharwad intends to hold an **Online Selection Process** for the following temporary position:

S. No.	Particulars	Details
1.	Name of the Position	Junior Research Fellow (JRF)
2.	Number of Position	01
3.	Essential Qualification	Graduate/Post Graduate degree in Electronics and Communication Engineering, Computer Science and Engineering, Electrical Engineering, Electrical and Electronics Engineering, Instrumentation Engineering, (or related stream) selected through a process described through any one of the following: a) Scholars who are selected through National Eligibility Test –CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b) The Selection process through a National level examination conducted by Central Govt. Departments and their agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.
4.	Desirable qualification	Excellent programming and analytical skills, a strong background in probability theory and mathematical modelling.
5.	Consolidated Emoluments	Rs. 31,000 per month + 16% House Rent Allowance
6.	Duration of the project	Max. 12 months
7.	Tenure of appointment	The appointment for the above contractual position will be initially for 03 (three) months, which can be further extended subject to satisfactory performance, availability of funds in the project and requirement in the project.
8.	Age Limit	Not exceeding 35 years as on the date of selection process.

**Job Description:**

S. No.	Project Code and Title	Job Description
1.	EE/SERB/EEQ/2020/000047: Deep Learning Oriented Blockchain Method based Resource Allocation in 6GWireless Networks	<ol style="list-style-type: none"><li>1. Designing resource allocation algorithms for 6G Wireless Communication</li><li>2. Design the basic experimental setup</li><li>3. Administrative work related to the project</li></ol>

**Details of Selection Process:**

S. No.	Particulars	Details
1.	Date	Last date to submit application form: 28th March 2021 Date of selection process: 5th April 2021 (If there is any change in the schedule, it will be put-up on IIT Dharwad website)
2.	Selection process	<b>Link to application form:</b> <a href="#">click here</a> Applications will be screened initially, based on the screening, only the shortlisted applicants will be called for interview via online/telephone mode. Mere fulfilment of minimum eligibility will not bestow the right for shortlisting, IIT Dharwad reserves the right to screen and shortlist candidates by introducing higher benchmarks. Emails will be sent to all shortlisted candidates.
3.	Interview Syllabus	<b>Communication</b> (Gate syllabus): a. Random processes: Basics of probability, random variables, CDF, PDF, random processes, mathematical expectation, conditional probability and conditional expectation. b. Digital communications: Digital modulation schemes, MAP and ML decoding, notions of bandwidth, SNR and BER for digital modulation, fundamentals of error correction codes (e.g.: Linear Block Codes like Hamming code). <b>Artificial Intelligence:</b> In depth knowledge of Machine Learning and Deep learning.
4.	Schedule	Time slots will be communicated through email.
5.	Documents Required	Applicant should have online version of all original certificates including mark sheets (matriculation onwards), experience certificate(s), monthly emoluments/salary drawn, other relevant documents (including one set of self-attested certificate(s)/document(s) and updated Curriculum Vitae.

**General Instructions to the applicants:**

1	Selected candidates shall not have claim on any regular position and shall not be bestowed any of the privileges like Housing, Medical Facility and Other benefits available to the regular employees of the Institute.
2	Applicants are advised to ensure, before appearing for the Selection Process, that they possess the minimum essential qualification and experience laid down for the post. Qualification obtained has to be from recognized University/Institute. Eligibility in terms of age, qualification and experience of a candidate shall be considered as on the date of Selection Process.
3	The number of vacancies indicated in the notification is tentative. IIT Dharwad reserves the right to increase or decrease the number of advertised posts at the time of selection. Further, IIT Dharwad reserves the right to NOT fill any of the posts advertised.
4	No TA/DA will be paid for attending the Selection Process as it is an online process.
5	In case of any inadvertent mistake in the process of selection, which may be detected at any stage even after issue of the appointment letter, the Institute reserves the right to <i>modify</i> , <i>withdraw</i> or <i>cancel</i> any communication made to the Applicants.
6	After joining the service of the Institute, the person(s) will have to abide by the Rules, Regulations, Ordinances, Statutes and Act of the Institute applicable from time to time. He/She may be assigned any duty within or outside the Institute depending upon the exigency of the work.
7	The Institute shall verify the antecedents or documents submitted by a person 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 person has a clandestine antecedents or background and has suppressed the said information, then his/her services shall be terminated forthwith and legal action may be initiated against such candidates/employees.
8	No interim correspondence whatsoever will be entertained from the candidates.

9	Canvassing in any form or bringing in any influence political or otherwise, will be a disqualification for the post.
10	In case of any dispute/ambiguity that may occur in the process of selection, the decision of the Institute shall be final.
11	For a query related to Selection Process, applicant may send e-mail on <a href="mailto:rpandya@iitdh.ac.in">rpandya@iitdh.ac.in</a> . However, enquiry/queries related to eligibility for the post/interpretation of rules will not be entertained.

**Assistant Registrar (R&D)**

**Date: 24 February 2021**