



23 July 2021

Recruitment Advt. No:

IITDH/R&D/EE/AK/Project-Recruitment/8.44/2020-21

IITDH/R&D/PB/TIHAN/Project_Recruitment/8.57/2021-22

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 positions:

S. No.	Particulars	Details
1.	Name of the Position	Junior Research Fellow (JRF)
2.	Number of Positions	02
3.	Essential Qualification	B. Tech or M. Tech degree in Electrical Engineering (or allied 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) b. Scholars selected through GATE exam in EE/IN/EC stream b. The Selection process through 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	A strong interest and aptitude for Power Electronics with emphasis on design and control of power converters, grid-tied systems and design of magnetics. Ability to design and develop hardware prototypes and experience with bench-top testing and hands-on circuit debugging is highly desirable.
5.	Consolidated Emoluments	Rs. 31,000 per month + 16% House Rent Allowance
6.	Duration of the project	Max. 24 months (Position 1) and 36 months (Position 2)
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.	SRG/2020/002232 <i>Investigations into GaN Device based bidirectional multi-level converters for grid-connected applications</i>	<ol style="list-style-type: none"> 1. Development of power converter designs through analytical design, modelling and simulation, and followed by hardware validation 2. Testing and Characterisation of wide-bandgap devices, gate-drivers, and associated measurement and instrumentation to support the project objectives. 3. Documentation and development of educational material to support dissemination of project findings.
2	EE/AM/TiHAN/2021/8.57 <i>Module 3: Development of Power-Line Interface System to Power a Transmission-Line Inspection Robot from a Live Transmission Line Conductor</i>	<ol style="list-style-type: none"> 1. Modelling, Simulation and analysis of magnetic coupling interface for the proposed solution (including current transformer design, winding design, dynamic modelling, etc) 2. Hardware design for bench-top validation at laboratory scale: prototyping of magnetics, design of converters, electrical stress analyses, FEA, etc Development of scaled-up concept demonstrator of the proposed hardware, test-bed development, performance testing and measurement.

Details of Selection Process:

S. No.	Particulars	Details
1.	Date	Last date to submit application form: 6th August 2021 Tentative date of selection process: 9th-13th August 2021 (If there is any change in the schedule, it will be notified on the IIT Dharwad website or over email)
2.	Selection process	Link to application form https://sites.google.com/iitdh.ac.in/peg-iitdh/positions Applications will be screened, and only shortlisted applicants will be called for interview via online 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.	Schedule	Date and Time slots will be communicated through email.

4.	Documents Required	Applicant should have online version of all original certificates including mark sheets (matriculation onwards), experience certificate(s), monthly emoluments/salary drawn, and all other relevant documents (including one set of self-attested certificate(s)/document(s) and updated Curriculum Vitae.
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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 must be from a 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 modify, withdraw or cancel 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, applicants may send email on [kabhijit@iitdh.ac.in] or [pbhui@iitdh.ac.in]. However, enquiry/queries related to eligibility for the post/interpretation of rules will not be entertained.

Assistant Registrar (R&D)
23 July 2021