

Recruitment No: IITDH/BSBE/BKC/ANRF/2025-26/001

Date: 01.05.2025

IIT Dharwad is an Institute of National Importance created by an Act of Parliament in 2016. To cater the Institute's requirement under a project in the **Department of Biosciences and Bioengineering**, IIT Dharwad intends to hold an Online Selection Process for the following temporary position:

Table 1: Details of the position

S. No.	Particulars	Details
1.	Name of the Position	Project Associate -I
2.	Number of Positions	1
3.	Essential Qualification	Four years of bachelor's degree or master's degree in biotechnology / Life Sciences / Biochemistry / Cell & Molecular Biology / Neuroscience / Pharmacology or equivalent from a recognized university or institute. Candidates should have at least 60% marks or equivalent CGPA in the qualifying degree. The candidates fulfil any ONE of the following additional requirements will be given preference: • GATE qualification - or • Selection in National Eligibility Test – CSIR-UGC NET including lectureship (Assistant Professorship) or Junior Research Fellowship (JRF)
4.	Desirable Qualification	• Hands-on experience with endothelial cell biology, cancer biology, or blood-brain barrier models. • Experience with confocal microscopy, flow cytometry, and in vivo tumor/metastasis models. • Familiarity with RNA-seq data analysis or vascular imaging techniques is an added advantage. • Demonstrated ability to work independently and as part of a multidisciplinary team. • Good communication and organizational skills, with the ability to maintain accurate records of experiments. Note: Prior experience in the above-mentioned areas is desirable but not mandatory. If you are passionate about vascular biology, metabolism, and their roles in diseases such as cancer and cardiovascular disorders, you are encouraged to apply. A strong willingness to learn and contribute to cutting-edge research is highly valued for this position.
5.	Consolidated Emoluments	₹. 37,000/- per month + HRA

6.	Tenure of appointment	Initially for 1 Year and can be extended up to 3 years based on performance.
7.	Age Limit	Not exceeding 50 years.
8.	Project Code and Title	ANRF/ECRG/2024/003947/LS "The Endothelial ESM1/KLF2 Axis in Vascular Fluid Dynamics and Blood-Brain Barrier Remodeling during Brain Metastasis Niche Formation: Mechanistic and Therapeutic Insights"
9.	Job Description:	1. The selected candidate will be actively involved in studying the mechanisms of endothelial dysfunction and vascular remodeling in the context of breast cancer brain metastasis, with a focus on blood-brain barrier (BBB) integrity and vascular fluid dynamics. The project will involve: 2. In vitro experiments with endothelial and cancer cell co-cultures. 3. Gene knockdown/overexpression using viral vectors (e.g., AAV, lentivirus). 4. Imaging techniques (confocal microscopy, immunofluorescence). 5. Trans-endothelial electrical resistance (TEER), permeability assays, and 3D culture systems. 6. In vivo metastasis models in mice and analysis of vascular function in brain tissues. 7. Molecular biology techniques include qRT-PCR, Western blotting, immunohistochemistry. 8. Data analysis and interpretation of scRNA-seq or bulk RNA-seq, if required.

Details of the Application and Selection Process:

S. No.	Particulars	Details
1.	Schedule	Last date to submit application form: <u>31/05/2025.</u> Date of selection process (tentative): Will be intimated later through email. Any change in the schedule will be notified on the IIT Dharwad website.
2.	Application and Selection process	The candidates are requested to apply through the rolling advertisement for project staff of the institute. Link to application form: https://www.jotform.com/220951115443448 Applications will be screened initially, based on the screening, only the shortlisted applicants will be called for an online 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.	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.

4. For any queries candidates may write to balkrishna@iitdh.ac.in

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 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 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.
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. She/he 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 antecedent 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 by the candidates.
9.	Canvassing in any form or bringing in any political influence 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 the Selection Process, applicants may send an email to balkrishna@iitdh.ac.in . However, enquiry/queries related to eligibility for the post/interpretation of rules will not be entertained.

Assistant Registrar (R&D)

Date: 01.05.2025