<u>ROLLING ADVERTISEMENT FOR THE APPOINTMENT OF FACULTY POSITIONS AT THE LEVEL OF ASSISTANT PROFESSOR</u>

Advertisement No. IIT(BHU)/FA/Rolling Advt/2/2025
<u>To apply:</u> <u>Click here</u>

IIT (BHU) Varanasi invites online applications from well qualified and meritorious Indian Nationals and Overseas Citizens of India (OCIs) for faculty positions at the level of **Assistant Professor** in its various Science & Engineering Departments and Interdisciplinary Schools. Persons of Indian Origin (PIO) and Foreign Nationals can also apply for faculty positions for contractual appointments up to five years as per GoI norms.

<u>Departments</u>: Ceramic Engineering, Chemical Engineering & Technology, Civil Engineering , Computer Science & Engineering, Electrical Engineering, Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, Mining Engineering and Mathematical Sciences.

Preferred areas of specialization for the post of Assistant Professor in the above-mentioned Departments/Schools are attached as Annexure-A.

This is a ROLLING ADVERTISEMENT. There is no last date, and application can be submitted throughout the year. However, the processing of applications will be done by the Departments/Schools as per the cutoff date fixed by the Institute.

Qualifications & Experience:

Assistant Professor Grade-I: PhD with first class or equivalent (in terms of grades etc.) at the preceding degree in the appropriate branch, with a very good academic record throughout. Three years teaching/research/industrial experience from the date of award of PhD (excluding the experience gained while pursuing PhD or any other lower degrees) as on the date of application. The experience should be in a reputed organization. The candidates should have demonstrated strong research capabilities in terms of publications in reputed peer reviewed journals of good impact factor and/or patents.

Assistant Professor Grade-II: PhD with first class or equivalent (in terms of grades etc.) at the preceding degree in the appropriate branch, with a very good academic record throughout. The candidates should have demonstrated strong research capabilities in terms of publications in reputed peer reviewed journals of good impact factor and/or patents. Such candidates may be appointed on contract.

The Assistant Professors Grade-II will be eligible for placement as Assistant Professor Grade-I on completion of three years teaching/research/industrial experience in reputed organizations from the date of award of PhD (excluding the experience gained while pursuing PhD) as per the Institute norms.

Pay Structure:

Assistant Professor Grade-I: 7th CPC Pay Level-12. For direct recruits minimum pay in 7th CPC PayLevel-12 is to be fixed at Cell No.1 Rs.101500/-. On completion of 3 years' service as Assistant Professor Grade-I, the incumbent shall move to 7th CPC Pay Level 13A1 (Rs.131400-204700) as per the Institute norms.

Assistant Professor Grade-II: 7th CPC Pay Level-10. The minimum starting pay is to be fixed in Pay Level-10 at Cell No.8 Rs. 70900/-. On completion of one year experience from the date of award of PhD (excluding the experience gained while pursuing PhD), the incumbent shall move to 7th CPC Pay Level-11 and after three years to 7th CPC Pay Level-12 as Assistant Professor Grade-I as per the Institute norms.

The salary carries all other allowances as admissible to a Central Government employee stationed at Varanasi. The benefits, such as HRA, LTC, medical re-imbursement, education allowance for children, contribution towards National Pension System (NPS), reimbursement of telephone bills, book grants, research initiation grant, financial support towards national and international conferences etc. shall be permitted as per the Institute norms. Relocation charges towards transportation of personal effects are also provided as per the Institute norms.

Probation: The period of probation in regular appointment will be one year.

Reservation: Without any compromise on qualification, experience and competence reservation to SCs, STs & OBCs candidates as per the Ministry of Education, Govt. of India(GoI) Rules will be applicable. GoI policy on reservation including EWS and Divyang will be followed for faculty positions.

Application Procedure: Candidates willing to apply for the post of Assistant Professor may fill up only **online form available at the link (https://facultyrecruitment.iitbhu.ac.in/) and upload the necessary enclosures. They need not send any hard copy of the application form**. The Institute will contact them after fixing a cutoff date, as per its selection criteria. **Any other mode of submission of application will not be entertained or accepted.**

Notes:

(i)   Mere eligibility will not entitle any candidate for being called for interview.

(ii)   Interviews will be scheduled based on the need of the Departments/Schools/Institute.

(iii)   Applicants for the post of Assistant Professor, who do not fulfill the minimum experience requirements, may be offered an appointment on contract.

(iv)   The requirements of minimum qualification and/or experience may be relaxed in the case of candidates with outstanding credentials.

(v)   *Reservation as per GoI norms*.

(vi)   The Institute reserves the right to fill or not to fill any or all the post(s) advertised without assigning any reason.

(vii)   Applicants not found suitable for higher positions may be considered for lower positions in the same area.

(viii)   All correspondence should be addressed to **the Office of the Faculty Affairs, Indian Institute of Technology (BHU), Varanasi-221005, India. Email: help.facultyrecruitment@iitbhu.ac.in**.
For any   clarification, candidates may contact the Office of the Faculty Affairs on the above address.

(ix)   Contact details of Heads/Coordinators of the Departments/Schools are available at the Institute website http://www.iitbhu.ac.in. The candidates may also approach them for any specific clarification.

 ADDITIONAL INFORMATION

1.   Candidates are advised to satisfy themselves before applying that at least they possess the minimum essential qualifications laid down in the advertisement.

2.   Candidates applying for a position in more than one Department/School are required to fill in separate application forms through online mode.

3.   All enclosures and the application form must bear full name and signature of the candidate on each page at the bottom.

4.   The candidate is responsible for the correctness of the information provided in the online application form. If it is found at a later stage that any information given in the online application is incorrect/false, the candidature/appointment is liable to be cancelled/terminated.

5.   Depending upon the exceptional qualification and experience, higher initial pay may be offered to deserving candidates as decided by the Selection Committee.

6.   Without any compromise on qualification, experience and competence; reservation for SC/ST/OBC-NCL/Person with Disabilities (Divyangjan) categories is applicable as per MoE/GOI rules. The candidates belonging to the reserved category (SC/ST/OBC-NCL/ Person with Disabilities (Divyangjan) are required to attach the valid Caste / Category Certificate in the format as prescribed by the Govt. of India. The Institute follows the Central list in the case of SC/ST and OBCs.

7.   Economy Airfare will be paid to the candidates called for presentation as well as interview within India from the local airport of place of duty/residence to Varanasi. In addition, candidates will be paid Taxi fare from residence/place of duty to local Railway Station/Airport and back as well as Varanasi Railway Station/Airport to the Institute & Back. Free boarding & lodging at the Institute Guest House would also be provided. The candidates may also be advised to travel by flights booked **through Indian Railways**

Catering and Tourism Corporation Ltd. (IRCTC), M/s Ashok Travels & Tours (ATT) M/s Balmer Lawrie & Company Limited (BLCL) only.

8. Applicants, who are employed in Government, Semi-Government Organizations or Institutions, should send their application **THROUGH PROPER CHANNEL** else they will be required to produce a **NO OBJECTION CERTIFICATE** from their employer at the time of interview.

9. The Institute reserves the right to restrict the number of candidates for interview to a reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement and other academic achievements.

10. No information will be sent to those candidates who are not short-listed for interview. No correspondence, whatsoever, will be entertained from the candidates regarding conduct and result of interview and reasons for not being called for interview or selection.

11. For availing reservation, the candidates must enclose desired certificates in the prescribed format with the application form.

12. Foreign Nationals who are Persons of Indian Origin (PIO), if selected, permission will be sought from Govt. of India before he/she can join the Institute. Other Foreign Nationals, if selected, appointment will be on a contract basis for up to five years subject to permission from Govt. of India before he/she can join the Institute.

13. Political and security clearance from the Ministries of External Affairs and Home Affairs is necessary in every case for individuals with foreign passports.

Sl. No	Department/ School	New Area of Specialization (s)	
		Area	**Sub-Area**
1.	Electronics Engineering	1. Analog VLSI 2. VLSI 3. Mixed Signal Circuit Design 4. VLSI Architectures	
2.	Ceramic Engineering	1. Electro-ceramics and Semiconductors 2. Multifunctional nanostructured materials 3. Ultra-high temperature Materials 4. Glass-ceramics and composite materials 5. Bioceramics, Bioglass and bioelectronics for healthcare applications 6. Ceramic additive manufacturing and 3D printing 7. Theoretical and computational materials 8. Materials Informatics 9. Recyclable, sustainable materials and circular economy	
3.	Chemical Engineering & Technology	1. Transport Processes, 2. Modeling Simulation and Optimization, 3. Process Dynamics and Control, 4. Process Engineering & Design, 5. Chemical Engineering Thermodynamics, 6. Energy & Environment, 7. Electrochemical Engineering, 8. Advanced Materials, 9. Artificial Intelligence.	
4.	Computer Science & Engineering	• Artificial Intelligence & Computer Vision	1. Artificial Intelligence 2. Multi Objective Optimization 3. Machine Learning 4. Deep Learning 5. Soft Computing 6. Computer Vision 7. Image / Video Processing 8. Multimedia, Sentiment Analysis 9. Natural Language Processing 10. Information Retrieval 11. Reinforcement Learning
		• Data Engineering & High-Performance Computing	1. Parallel / Distributed Computing 2. Big Data Analytics 3. DBMS 4. Cloud Computing
		• Systems & Networks	1. Quantum Computing, 2. Computer Architecture, 3. IoT, 4. Wireless Sensor Networks, 5. Network Security, 6. Bio-Computing, 7. Software Engineering, 8. 5G Networks, 9. Block-Chain.
		• Theoretical Computer Science	1. Algorithms 2. Theory of Computation 3. Graph Theory 4. Cyber Security 5. Cryptography

| | | | 6. Queening Theory |
			7. Game Theory
5.	Electrical Engineering	1. Electrical Machines and Drives 2. Power Systems 3. Control Systems Engineering 4. Power Electronics	
6.	Mathematical Sciences	1. Topology 2. Operator Theory 3. Complex Analysis 4. Artificial Intelligence (A.I.) / Machine Learning (M.L.) 5. Theoretical Computer Science 6. Numerical Analysis 7. Statistics 8. Stochastic Process 9. Financial Mathematics 10. Bio-informatics 11. Applied Mathematics	
7.	Mining Engineering	1. Mineral Beneficiation and Processing 2. Mining Machinery 3. Mine Automation and Smart Mining 4. Soil Mechanics and Geotechnical Engineering 5. U/G Gasification and Carbon Sequestration 6. Mineral Economics and Geostatistics 7. Mine fire and disaster	
8.	Metallurgical Engineering	1. Computational Materials Engineering (esp. ab-initio methods, density functional theory, molecular dynamics simulations and accelerated alloy development using artificial intelligence-machine learning). 2. Thermodynamic Measurements of Multicomponent Alloys (esp. lead-free solders, energy storage materials and high entropy alloys). 3. Thermodynamics and Kinetics of Metallurgical Processes (esp. pyro-metallurgy, hydrometallurgy and electrometallurgy). 4. Extraction of Ferrous and Non-ferrous Metals (esp. modelling of extraction processes, extraction of strategic minerals, beneficiation, carbon capture and storage for steel industry); Processing of Metals and Alloys; Management and Recycling of Metallurgical Wastes (esp. battery and electronic wastes). 5. Mechanical Behavior and Processing (esp. finite element methods, component integrity and remaining life assessment, hydroforming, advanced processing technologies); Foundry and Near-net Shape Processing; Metal Joining; Surface Engineering; Corrosion and Prevention (esp. solar cells, oil pipelines, aerospace and automotive materials, bio-implants). 6. Structural Metallurgy; Phase Transformations; Alloy Design and Development (esp. design of advanced steels, complex concentrated alloys.); Composites (esp. carbon-fibre composites), Advanced Materials (esp. electronic and magnetic materials, energy harvesting and storage); Characterization Techniques (quantitative and theoretical simulation of X-ray and electron diffraction, advanced electron microscopy, in-situ studies in TEM and SEM, correlative microscopy, quantitative high resolution microscopy and spectroscopy including aberration correction, electron energy loss spectroscopy).	
9.	Civil Engineering	• Geo-informatics Engineering	(1) Digital Photogrammetry (2) Microwave Remote Sensing (3) Digital Image Processing (4) Web GIS (5) LiDAR (Light Detection and Ranging) (6) Global Navigation Satellite System (GNSS)
		• Transportation Engineering	(1) Planning and design of waterways (2) Sustainable highway construction (3) Geometric design of Transport System

			(4) Binder Rheology (5) Concrete- Geopolymer, PQC, DLC, Porous, Foam (6) Transport and Environment
		• Geotechnical Engineering	(1) Unsaturated Soil Mechanics (2) Rock Mechanics (3) Geohazards
		• Environmental Engineering	(1) Industrial Waste Management/ Waste reclamation & remediation / Environmental sanitation (2) Air Quality Control Engg. (3) Climatology (4) Environmental Impact Assessment
		• Engineering Geoscience	(1) Applied Geology (2) Engineering Geosciences
		• H&WR Engineering	(1) Turbulent flow (2) River Engineering (3) Urban Flood Modeling and Mitigation
		• Structural Engineering	(1) Computational Mechanics (2) Finite Element Analysis of structures (3) Structural Reliability And Risk Assessment (4) Precast and Prestressed Concrete Structures (5) Bridge Engineering
10.	Mechanical Engineering	1. Computer Aided Design 2. NDT & SHM 3. Micro Electro-mechanical System (MEMS), 4. Robotics.	
		1. Renewable Energy Technology 2. Experimental and numerical thermal and fluid science.	
		1. Micro-Nano Manufacturing, 2. Additive Manufacturing, 3. Unconventional Manufacturing, 4. Manufacturing Automation 5. Digital Manufacturing	
		1. Simulation and Data Driven Decision Making, 2. Machine Learning and Blockchain Technology, 3. Large scale optimization.	