ROLLING ADVERTISEMENT FOR APPOINTMENT OF FACULTY POSITIONS AT THE LEVEL OF ASSISTANT PROFESSOR

Advertisement No. IIT(BHU)/FA/Rolling Advt/01/2023

To apply: Click here

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, which can be renewed further.

Departments: Architecture, Planning & Design#, Ceramic Engineering, Chemical Engineering & Technology, Civil Engineering , Computer Science & Engineering, Electrical Engineering, Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, Mining Engineering and Mathematical Sciences.

Schools: Biomedical Engineering and Materials Science & Technology.

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 cut off date fixed 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.

 # Candidates applying for a faculty position in the Department of Architecture, Planning and Design must have a valid Council of Architecture (COA) registration certificate and a scanned copy of the same should be uploaded alongwith the documents.

Pay Structure:

Assistant Professor Grade-I: Academic Pay Level-12 (Rs.101500-167400). For direct recruits minimum pay in Academic Pay Level-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 Academic Pay Level 13A1 (Rs.131400-204700) as per the Institute norms.

Assistant Professor Grade-II: Academic Pay Level-10 (Rs.57700-98200). The minimum starting pay is to be fixed in Academic 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 Academic Pay Level-11 and after three years to Academic 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 fringe benefits, such as HRA, LTC, medical re-imbursement, education allowance for children, contribution towards New Pension Scheme (NPS), reimbursement of telephone bills, book grants, research initiation grant (up to Rs. 10 lakhs), 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 cut off 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 applying for a position in more than one Department/School are required to fill separate application forms through online mode.
2. All enclosures and the application form must bear full name and signature of the candidate on each page at the bottom.
3. 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.
4. Depending upon the exceptional qualification and experience, higher initial pay may be offered to deserving candidates as decided by the Selection Committee.
5. Candidates called for presentation as well as the interview will be paid second AC railway fare from the nearest Railway station of the place of duty or residence to Varanasi for an overnight journey. **Economic Airfare by Air India only** will be paid for a long distance journey within India from the local airport of place duty/residence. 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.
6. 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.
7. The Institute reserve 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.
8. 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.
9. For availing reservation, the candidates must enclose desired certificates in the prescribed format with the application form.
10. 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.
11. Political and security clearance from Ministries of External Affairs and Home Affairs is necessary in every case for individuals with foreign passports.

Area of Specialization for the post of Assistant Professor

Annexure- A

Sl. No	Department /School	New Area of Specialization (s)	
		Area	**Sub-Area**
1	School of Bio-Medical Engineering	Bio-Mechanics	Bio-Mechanics with expertise in Medical Implant Manufacturing and Orthopedic Implants including Biosensors
		Bio-Electronics	
		Neuroengineering	
		Human Computer Interface	
		Candidates having educational background in MBBS plus PhD may also be considered for faculty positions at entry level (i.e. Assistant Professor)	
2	Mining Engineering	Smart Mining	IoT
			Robotics
			Mine Automation
			A.I. in Mining
		Green Mining	U/G Gasification of coal
			Coal bed methane
			Carbon sequestration
			Shale Gas Mining
3	Computer Science & Engineering	Artificial Intelligence & Computer Vision	Artificial Intelligence, Multi Objective Optimization, Machine Learning, Deep Learning, Soft Computing, Computer Vision, Image/Video Processing, Multimedia, Sentiment Analysis, Natural Language Processing, Information Retrieval, Reinforcement Learning.
		Data Engineering & High Performance Computing	Parallel/Distributed Computing, Dig Data Analytics, DBMS, Cloud Computing
		Systems & Networks	Quantum Computing, Computer Architecture, IoT, Wireless Sensor Networks, Network Security, Bio-Computing, Software Engineering, 5G Networks, Block-Chain
		Theoretical Computer Science	Algorithms, Theory of Computation, Graph Theory, Cryptography, Queening Theory, Game Theory
4	Civil Engineering	Geo-informatics	Photogrammetry, Geodesy, Web GIS, Advance Surveying, Microwave Remote Sensing
		Transportation Engineering	Pavement-Material, Evaluation, Analysis & Design Planning and Design of Waterways Planning and Design of Pipelines Highway Safety and Human Factors Asphalt/Bitumen Rheology Traffic Management and Modelling Intelligent Transportation Systems Sustainable Highway Construction Transportation Economics and Finance
		Geotechnical Engineering	No Requirement
		Environmental Engineering & Management	Water Supply & treatment-01 Waste Water Management with special relevance to reuse and recycle-01 Solid Waste Management/Air Quality Control Engg-Industrial Waste Management /Waste reclamation

			& remediation/Environmental sanitation/EIA &EA-
		Advanced Construction Material Bridge Engineering Risk Analysis and Reliability Fire Resistance of RCC Structure Pre-cast and Pre-stressed RCC Structure Disaster Management & Planning	Strain Gradient Theory Functional Graded Material
		Dam Safety Management Hydrological Safety of Dam River Engineering & Hydraulics Dam Monitoring and Instrumentation	Dam Break Analysis Dam Safety Management Approach Reservoir Capacity, Silting Mechanism and Profiles Hydrological Modeling Engineering Geosciences
5	Chemical Engineering & Technology	Transport processes	Modeling, Simulation & optimization; computation fluid dynamics; process dynamics and control; multiphase flow
		Energy & Environment	Renewable energy; electrochemical engineering; separation processes
		Reaction Engineering	Thermodynamics; catalysis; molecular simulation
		Advanced materials	Polymers; sensors
6	Mechanical Engineering	Design Thinking, Sensors and Biotribology, Micro Elecro-mechanical System (MEMS), Robotics & Cybernetics.	
		Renewable Energy Technologies, (Hydrogen, Electric Mobility, PV and Fuel Cell Technology, Solar-Wind-biomass-Geothermal, etc.), Experimental and numerical thermal and fluid science.	
		Micro-Nano Manufacturing, Additive Manufacturing, Unconventional Manufacturing, Data Driven Manufacturing, IOT, COBOT & Automation, Micro-nanomachining.	
		Simulation and Data Driven Decision Making, Machine Learning and Blockchain Technology, Large scale optimization.	
7	Mathematical Sciences	Topology	
		Statistics	
		Algebra	
		Functional Analysis	
		Complex Analysis	
		Complex Geometry	
		Computational Fluid Dynamics	
		Finite Element Analysis	
		Algorithm -	
		Fluid Dynamics	
8	Electronics Engineering	Photonics; Neuromorphic; MEMS	Silicon Photonics, Quantum Photonics, Quantum Computing, MEMS
		Microprocessor and Microcontroller based system design, Digital System Design	Image Processing, Embedded Systems Design; Real Time Operating System, Speaker Identification, Speech recognization
		Analog VLSI; Digital VLSI; Mixed Signal Circuit Design; VLSI Architectures; VLSI based signal processing; Physical Design;	Neuromorphic Computing, CAD tool development; MMIC, System-on-Chip (SoC), Chip Design, IC packaging
9	Architecture, Planning & Design	Institutional Infrastructure planning	Landscape Architecture Housing
		Disaster Mitigation and Management	Urban Resilience and Disaster Management
		Advanced Building construction and building services	Building services (MEP)

		Architectural Design	Design, Theory and criticism/ spatial visual communication
10	Electrical Engineering	Electrical Machines and Drives, Power Systems, Control Systems Engineering and Power Electronics	
11	Metallurgical Engineering	Foundry & Near-Net Shape Processing	
		Metal Joining	
		Extraction of Ferrous and Non-Ferrous Metals	
		Processing of Secondary Metals & Alloys	
		Thermodynamics of Materials.	
12	SMST	Computational Materials Engineering	
13	Ceramic Engineering	Advance Refractory materials for structural applications and Cement	Cement and Refractory
		Advanced manufacturing and additive manufacturing of ceramic materials	Advanced materials processing
		Computational/Theoretical modeling of ceramic materials	Models on Processing-microstructure-property of ceramics
		Composite materials for structural applications	Ceramic/metal-matrix composites
		Ceramic Materials coatings and thin films	
		Ceramic Materials for Nuclear Energy Applications,	Protective Blanket/Cladding ceramics for nuclear reactor, Nuclear waste management
		Ceramic Membrane and Separation Technology	Water purification, Wastewater treatment, Clean Energy Application
		Glass	Glass Manufacturing