

**SPECIAL RECRUITMENT DRIVE FOR SC/ST/OBC/EWS/PWD CANDIDATES FOR APPOINTMENT OF
FACULTY POSITIONS AT THE LEVEL OF PROFESSOR, ASSOCIATE PROFESSOR & ASSISTANT
PROFESSOR**

Advertisement No. IIT(BHU)/FA/Special Drive /02/2024

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IIT (BHU) Varanasi invites online applications from SC, ST, OBC, EWS and Person with Disabilities (PwD) (VH, OH, HH) under the Special Recruitment Drive from Indian Nationals for the post of **Professor, Associate Professor and Assistant Professor** in its various Science & Engineering Departments and Interdisciplinary Schools.

Departments: Architecture, Planning & Design[#], Ceramic Engineering, Chemical Engineering & Technology, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, Mining Engineering, Pharmaceutical Engineering & Technology, Chemistry, Mathematical Sciences, Physics and Humanistic Studies.

Schools: Biochemical Engineering, Biomedical Engineering and Materials Science & Technology.

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

The date of submission of online applications is from 17.10.2024 to 06.11.2024.

Qualifications & Experience:

Professor: A minimum 10 years of Teaching/Industry/Research experience from the date of thesis defence (excluding the experience gained while pursuing PhD), of which at least four years' at the level of Associate Professor in IITs, IISc Bangalore, IIMs, NITIE Mumbai and IISERs or at an equivalent level in any such other Indian or foreign institution/institutions of comparable standards as on the date of application. The candidate should have demonstrated leadership in research in a specific area of specialization in terms of guidance of M.Tech & PhD students, strong records of publications in reputed peer reviewed journals of good impact factor, patents, laboratory/course development and/or other recognized relevant professional activities.

Associate Professor: A minimum six years of Teaching/Industry/Research experience from the date of thesis defence (excluding the experience gained while pursuing PhD), of which at least three years' as Assistant Professor Grade-I in Pay Level 12 or Assistant Professor (Regular) with AGP of Rs. 8000/- (pre-revised) or Senior Scientific Officer/Senior Design Engineer in a reputed organization as on the date of application. The candidate should have demonstrated adequate experience of independent research in terms of guidance of M.Tech and PhD students, strong record of publications in reputed peer reviewed journals of good impact factor, patents, laboratory/course development and/or other recognized relevant professional activities.

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 thesis defence (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 candidates should have demonstrated strong research capabilities in terms of publications in reputed peer reviewed journals of good impact factor and/or patents. **The age of a candidates for Assistant Professor may preferably be not more than 35 years.**

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 along with the documents.

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 thesis defence (excluding the experience gained while pursuing PhD) as per the Institute norms. Minimum Qualification for all faculty positions is PhD with first class or equivalent (in terms of grades, etc.) at the preceding degree in the appropriate branch, with a very good academic records throughout. Additional required details on experience etc. are mentioned below:

Pay Structure:

The details of pay scale admissible at the time of joining are as follows:

Post	Pay Level of 7 th CPC	Entry Pay
Assistant Professor Grade II	10	70900
Assistant Professor Grade II	11	73100
Assistant Professor Grade I	12	101500
Associate Professor	13A2	139600
Professor	14A	159100

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-imburement, 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 ,EWSs and Person with Disabilities (PwD) (VH, OH, HH) candidates as per the Ministry of Education, Govt. of India (GoI) Rules will be applicable.

Application Procedure: Candidates willing to apply for the above mentioned positions 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. 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 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.
2. Candidates applying for a position in more than one Department/School are required to fill 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. 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.
7. 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.
8. 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.
9. 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.
10. For availing reservation, the candidates must enclose desired certificates in the prescribed format with the application form.
11. The application forms received through any other mode shall not be entertained and the Institute does not take responsibility to inform such candidates.

**Preferred Area of Specializations for Faculty Recruitment under Special Drive for the
post of Assistant Professor, Associate Professor and Professor**

Sl No	Name of the Department/School	Specializations		
		Assistant Professor	Associate Professor	Professor
1.	Architecture, Planning & Design	Graduation in B.Arch. with valid COA registration (i) Landscape Architecture (ii) Architectural History & Theory (iii) Building Engineering & Management (iv) Visual Design and Communication (v) Heritage and Conservation		
2	Computer Sciences & Engineering	(i) Theoretical Computer Science (ii) Quantum Computing (iii) Big Data Analytics (iv) Information Security (v) Computer Architecture (vi) Database Management System		
3	Chemical Engineering & Technology	(i) Chemical Reaction Engineering (ii) Transport Processes (iii) Modelling Simulation and Optimization (iv) Process Dynamics and Control (v) Process Engineering & Design (vi) Chemical Engineering Thermodynamics (vii) Energy & Environment (viii) Electrochemical Engineering (ix) Advanced Materials		
4	Mathematical Sciences	(i) Algebra (ii) Analysis (iii) Discrete Mathematics (iv) Numerical Analysis (v) Fluid Dynamics (vi) Fluid Dynamics (Biomechanics, Vortex Dynamics) (vii) Image Analysis/Image processing (viii) Topology (ix) Probability & Statistics (x) Complex Analysis (xi) Coding Theory (xii) Cryptography (xiii) Algorithm (xiv) Machine Learning (xvi) Theory of Computation (Theoretical Computer Science) (xvii) Parallel Computing		
5	Metallurgical Engineering	(i) Foundry & Near-Net Shape Processing (ii) Metal Joining (iii) Extraction of Ferrous and Non-Ferrous Metals (iv) Processing of Secondary Metals and Alloys (v) Thermodynamics of Materials		

6	Mining Engineering	(i) Rock Mechanics (ii) Mine Environment (iii) Mine Planning (iv) Mine Safety (v) Coal Mining (vi) Mine Surveying (vii) Metal Mining (viii) AI and Big Data Analytics	(i) Hard Rock Mining (ii) Mining Machinery	(i) Hard Rock Mining (ii) Mining Machinery	
7	Electronics Engineering	Digital Technique and Instrumentation and its allied areas of Digital Systems Engineering and Microelectronics & VLSI	(i) Microelectronics Engineering (ii) Communication System Engineering (iii) Digital Technique and Instrumentation (iv) Microwave Engineering		
8	Ceramic Engineering	(i) Glass and Glass Ceramics (ii) Refractories and high temperature ceramics (iii) Ceramic White wares and cements (iv) Bio Ceramics (v) Ceramic Coating (vi) Computational Modelling on Ceramic Materials (vii) Functional and High Tech Ceramic			
9	Physics	(i) Soft and Active Matters (ii) Nuclear Physics (iii) High Energy Physics (iv) Photonics (v) Quantum Information (vi) Condensed Matter Physics and Material Physics (vii) Astrophysics and Space Sciences (viii) Remote Sensing	(i) Condensed Matter Physics (ii) Solar and Space Physics (iii) Soft Matter and Bio-Physics (iv) Atomic and Molecular Physics (v) Astrophysics (vi) Optics and Photonics (vii) Quantum Information (viii) Material Physics and Nanotechnology (ix) High Energy Physics	(i) Condensed Matter Physics (ii) Optics & Photonics (iii) Solar and Space Physics (iv) High Energy Physics	
10	School of Materials Science & Technology	Computational Materials Engineering			
11	Chemistry	(i) Inorganic Chemistry	(i) Organic Chemistry/Electro-Organic Synthesis/Fuel Cell/Electrochemistry		
12	Civil Engineering	Name of Specialization	Assistant Professor	Associate Professor	Professor
		Hydraulics & Water Resources Engineering	Field/Experimental Watershed Management, Hydrological Modelling, River Engineering/Hydraulics, Sediment Transport	Turbulent Flow	
		Environmental Engineering	Environmental Microbiology, Air Pollution Monitoring and Control Water and Waste Water Management ,Solid Waste Management, Environmental Impact Assessment (EIA) & Environmental Sanitation		

		Engineering Geosciences	Rock Mechanics with M.Tech Background			
		Geo-Informatics	Photogrammetry Web GIS Geodesy			
		Transportation Engineering				Modelling of Road Traffic Noise, Highway Construction Practice
		Structural Engineering			Composite Structures and FEM	
13	Mechanical Engineering		SL No	Specialization	Research/Teaching Area	
			1	Production Engineering	Machining, Casting, Welding, Forming, Additive Manufacturing, Manufacturing System and Automation, Unconventional Manufacturing, Product Design & Development	
			2	Machine Design	Mechanics, Vibration, Solid Mechanics, Computer Aided Design (CAD), Tribology, Micro Electro-Mechanical System (MEMS), Robotics & Control System	
			3	Decision Science & Engineering/Industrial Management	Health Care Management, Supply Chain Management, Agribusiness, Machine Learning and Blockchain Technology, Industrial Engineering/Operations Management.	
14	Electrical Engineering	(i) Electrical Engineering (ii) Electrical Machines and Drives (iii) Power Systems (iv) Control Engineering (v) High Voltage Engineering (vi) Systems Engineering (vii) Power Electronics (viii) Instrumentation				
15	Pharmaceutical Engineering & Technology	(i) Bulk Drug Technology and Development (ii) Medical Devices and Diagnostic	(i) Pharmaceutics (ii) Pharmaceutical Chemistry (iii) Pharmacology (iv) Pharmacognosy	Pharmaceutics (ii) Pharmaceutical Chemistry (iii) Pharmacognosy		
16	School of Biomedical Engineering	(i) Cell & Molecular Biology (ii) Human Molecular Genetics (iii) Cancer Research/Cancer Biology (iv) Immunology/Immunotechnology (v) Infectious Disease (vi) Vaccinology (vii) Cardiovascular Research	(i) Orthopaedic Bio Mechanics	(i) Nanomedicine (ii) Biocontrol & Instrumentation (iii) Orthopaedic Bio Mechanics (iv) Biomaterials & Cellular Biophysics		

		(viii) Neuroscience/Neurotechnology (ix) Physiology (x) Reproductive Technology/Developmental Biology (xi) Mathematical/Systems Biology (xii) Clinical Engineering (xiii) Critical Care Technology (xiv) Biomechanics (xv) Medical Device Manufacturing																								
17	School of Bio-Chemical Engineering	<table border="1"> <thead> <tr> <th>SI No</th> <th>Area of equipment</th> <th>Required qualification in additional to PhD degree and other Institute level essential requirements.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Bio Fuel</td> <td rowspan="2">B.Tech or M.Tech in Biochemical Engineering/Chemical Engineering/Biosciences and Bioengineering /Biotechnology /Agriculture Engineering</td> </tr> <tr> <td>2</td> <td>Agro-Biochemical Engineering</td> </tr> <tr> <td>3</td> <td>Cell and Gene Therapy</td> <td rowspan="2">B.Tech or M.Tech or M.Sc in Bio-sciences and Bioengineering/ Biotechnology /Biochemistry/Bio-Medical Engineering /Material Science. B.Pharma or M.Pharma/M.Tech in Pharmaceutical Sciences/ Pharmaceutical Engineering.</td> </tr> <tr> <td>4</td> <td>Translational nano-medicine</td> </tr> <tr> <td>5</td> <td>Food Engineering</td> <td rowspan="4">B.Tech or M.Tech in Food Engineering / Biochemical Engineering /Chemical Engineering / Biosciences and Bioengineering / Biotechnology /Biomedical Engineering/Agriculture Engineering</td> </tr> <tr> <td>6</td> <td>Metabolic Engineering</td> </tr> <tr> <td>7</td> <td>Bio-instrumentation and control</td> </tr> <tr> <td>8</td> <td>Bioreactor Design and Scale-up/Plant Design</td> </tr> </tbody> </table>	SI No	Area of equipment	Required qualification in additional to PhD degree and other Institute level essential requirements.	1	Bio Fuel	B.Tech or M.Tech in Biochemical Engineering/Chemical Engineering/Biosciences and Bioengineering /Biotechnology /Agriculture Engineering	2	Agro-Biochemical Engineering	3	Cell and Gene Therapy	B.Tech or M.Tech or M.Sc in Bio-sciences and Bioengineering/ Biotechnology /Biochemistry/Bio-Medical Engineering /Material Science. B.Pharma or M.Pharma/M.Tech in Pharmaceutical Sciences/ Pharmaceutical Engineering.	4	Translational nano-medicine	5	Food Engineering	B.Tech or M.Tech in Food Engineering / Biochemical Engineering /Chemical Engineering / Biosciences and Bioengineering / Biotechnology /Biomedical Engineering/Agriculture Engineering	6	Metabolic Engineering	7	Bio-instrumentation and control	8	Bioreactor Design and Scale-up/Plant Design		
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18	Humanistic Studies	(i) Economic (ii) Psychology (iii) Philosophy																								