Annexure – I of Rolling Advertisement No. IITD/2025/AP-1 Dated 7.4.2025

Institute minimum shortlisting criteria for an Assistant Professor (Grade I and Grade II):
- Ph.D. with 3 years' experience (excluding the experience gained while pursuing Ph.D.) only for Grade I.
- For Grade II, PhD. is the qualifying requirement.
- First class or equivalent grade in preceding degree in respective discipline, with a consistently good academic record.
- Demonstrated ability to teach and communicate well.
- Maximum age is 35 years for male and 38 years for female candidates (to be relaxed by 5 years in case of persons with physical disability, SC and ST and 3 years in case of OBC-NCL).
- At least 4 refereed conference/journal papers, of which at least 2 should be in reputed journals.
- Individual academic units may have additional shortlisting criteria and can be seen below.

Areas in which applications are sought in academic units with additional shortlisting criteria:

S. No.	Academic Unit	Areas	Additional Criteria for Shortlisting in the Academic Unit
1	DEPARTMENT OF APPLIED MECHANICS	Solid mechanics, Fluid mechanics, Design engineering, and interdisciplinary areas of mechanics including but not restricted to Product Design, Biomechanics, Multiscale mechanics, Multifunctional materials and structures, Structural health monitoring, soft robotics, Machine learning in mechanics, Two-phase flows, Environmental fluid flows, Granular flows, Turbulence, Solid-fluid interactions, etc.	• Minimum 4 SCI/SCIE listed reputed journal papers with at least 3 as first author. • For applicants with product design background, a minimum of 4 papers with at least 3 SCI/SCIE listed reputed journal papers as first author. • One granted patent will be considered equivalent to one journal publication. **Academic background:** At least one degree from Engineering Discipline.
2	DEPARTMENT OF BIOCHEMICAL ENGINEERING & BIOTECHNOLOGY	Metabolic engineering, synthetic biology, enzyme and bioprocess technology, mammalian cell technology, downstream processing, advanced biomanufacturing.	**Publication Record:** Published at least 3 original research articles in reputed journals as first author. **Academic background:** Chemical Engineering or Biochemical Engineering is preferred. Exceptional candidates with other academic backgrounds will be considered.

| 3 | DEPARTMENT OF CHEMICAL ENGINEERING | Preferable research areas:
• Energy, environment, and sustainability
• Healthcare technologies
• Novel materials
• Process systems engineering with afocus on AI and ML | **Academic background:** Required B. Tech or equivalent in Chemical Engineering or allied areas such as Biochemical Engineering and/or Biotechnology, and Petroleum Engineering/ Technology and/or Petrochemicals Engineering/ Technology.
Publication Record: Candidate should have published at least 4 peer-reviewed original research articles (in SCI journals) with 3as first author in Journals with an impact factor of at least **3.0**.
Additional: Applicants who have completed their Ph. D from IIT Delhi, should have at least 3 years of post-doctoral or research experience outside of IIT Delhi. |
| 4 | DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING | Artificial intelligence/machine learning and robotics; Security, Privacy and Reliability (incl. Cryptography, Formal verification and Software Engineering); Quantum computing, Systems (incl. Distributed and Parallel computing, Operating Systems, Networks, Databases, Computer Architecture, Cloud Computing, Compilers, Cyber-physical systems), Computer Graphics and Vision. Outstanding candidates in other areas of computer science will also be considered.

Candidates with an interdisciplinary or applied research focus are expected to demonstrate a strong research profile in core computer science areas. | **No Remarks** |

5	Department of Chemistry	• All areas of Organic Chemistry, including Medicinal Chemistry and Chemical Biology. • Chemistry of s-block elements. • Inorganic polymers. • Organometallic chemistry and reaction mechanism. Inorganic spectroscopy.	**No Remarks**
6	DEPARTMENT OF ENERGY SCIENCE &ENGINEERING	• Photovoltaic Systems, Electrical Energy Systems, Thermodynamics, Fluid Mechanics and Heat Transfer pertaining to Energy Systems, Fuel Technology, Wind Energy Systems, Energy Systems modelling and simulations, Energy Policy and Planning.	**No Remarks**
7	DEPARTMENT OF MANAGEMENT STUDIES	Micro economics, Macro-economics and Econometrics, Simulation Modelling, Probabilistic/Stochastic Modelling, Service Operations, Behavioral Modelling, The Future of Work & Workforce, Normative Ethical and Sustainable Processes, Positive Organizational Psychology, Business Analytics - Big Data / Natural Language Processing / Deep Learning /AI Digital Transformation - loT / Blockchain / Information Security Management Extended Reality and Digital Platforms, Entrepreneurial Finance, Strategic Management, Technology	**No Remarks**

			Management, Strategic Innovations, Strategic Entrepreneurship, Marketing Research and Marketing Analytics. 1) Econometrics 2) Entrepreneurial Finance 3) Marketing Analytics	
8		DEPARTMENT OF MATERIAL SCIENCE AND ENGINEERING	• Polymeric materials: recycling of polymers, sustainable polymers, polymer-based devices, polymer processing, polymer rheology, polymer conformations, polymer crystallization. • Structural materials: correlative microscopy involving multiple high resolution electron microscopy; urban mining and recycling of precious metals and critical minerals (extractive focussing circular economy); extreme environmental materials (ceramics, hypersonic, nuclear, aerospace and space materials for high strain-rate- and shock-resistance); composite materials (C-C, CMC, MMC, refractory-based). • Functional materials: advanced microscopy characterization for functional Materials, non chemical single crystal growth techniques (MBE, ALD). All areas of Materials Science and Engineering	**No Remarks**

9	DEPARTMENT OF TEXTILE & FIBRE ENGINEERING	Textile Engineering, Textile Technology, Textile Chemistry, Fibre Science & Technology, and Other Engineering and Sciences (Such as Civil, Mechanical, Chemical, Electrical/Electronics, Materials, Polymers, Computers, Mathematics, Physics, Chemistry, Biosciences and Management) with demonstrated research experience in areas relevant to textiles and fibres.	Publication Record: At least 4 refereed SCI indexed journals papers. Additional: Those who have applied in the last one year for Assistant Professor position, and not shortlisted/selected on any criteria other than experience, shall not be considered for the next round of selection.
10	CENTRE FOR APPLIED RESEARCH IN ELECTRONICS (CARE)	**MW:** Millimeter-wave and THz components and sub-systems, Active and reconfigurable antennas and arrays, Intelligent Reconfigurable Surfaces, Microwave imaging and surveillance, microwave device characterization and modelling. **SP:** Statistical Machine Learning, Radar/Sonar Signal Processing, Underwater and Air Acoustic Signal Processing, Quantum Information Processing, Optimization Algorithms/Techniques for Signal Processing. **ME:** RF MEMS, THz Electronics, Semiconductor Quantum Computing Hardware, High-Voltage and High-Speed CMOS, Spintronics RF Devices.	**No Remarks**

11	CENTRE FOR RURAL DEVELOPMENT & TECHNOLOGY (CRDT)	• Bioenergy and biofuels for energy sustainability in rural areas. • Water and soil conservation practices at watershed level. • Food biochemistry with rural application. • Food grain storage structure engineering for rural applications. • Decentralised drinking water treatment systems with rural application.	**Publication Record:** Should have published at least 3 original research articles (review articles are excluded) and out of which at least 1 as first author in reputed journals listed in SCI or WoS. When the candidate is not the first author, the work reported in paper should belong to doctoral or postdoctoral work of the candidate. **Academic background:** First class or equivalent grade in all preceding degrees in respective discipline, with a consistently good academic record. Doctoral research work should have potential for rural application **Other:** Potential for good teaching. Shortlisting Will be preceded by an interaction to ascertain the relevance of the application to the centre.
12	CENTRE FOR ATMOSPHERIC SCIENCES (CAS)	Modelling and data assimilation in oceanography; Biogeochemical cycles; Weather and climate forecasting; and Meteorological observations. Exceptional candidates in all the other areas of atmospheric and oceanic sciences will also be considered.	**Publication Record:** At least 4 high-quality papers relevantto CAS in reputed journals demonstrating excellence in scientific research. **Additional:** Candidates who have previously been approvedfor Stage-II interaction will not be considered unless there is a substantial improvement in their research profile

13	CENTRE FOR BIOMEDICAL ENGINEERING (CBME)	**Bio Instrumentation:** Electrical and Electronics Engineering with applications in Biological systems/Biomedical Sensors. **Biomechanics:** Rehabilitation, sports and movement bio-mechanics, Mechanical Engineering, Biomedical device design, Computational biomechanics and simulations. **Bio Imaging:** Biomedical Optics, Image processing and analysis, Magnetic Resonance (MR) hardware.	**Academic Record:** 1st Class throughout **Publication Record:** For grade II Case 1: Minimum of 4 first author and total of 8 research publications (all non-review) each of which should have IF ≥ 3. OR Case 2: Research publications (all non-review) with cumulative IF ≥ 30 of which minimum IF ≥ 15 must be as first author. For grade I: Case 1: Minimum of 5 first author and total of 10 research publications (all non-review) each of which should have IF ≥ 3. OR Case 2: Research publications (all non-review) with a cumulative IF ≥ 35 of which minimum IF ≥ 20 must be as first author. **Other:** For applicants with an immediate degree from IIT Delhi a 6-years cooling off period (spent at another organization) is recommended. Should not have been interviewed in the last 1year (previous two cycles)

14	TRANSPORTATION RESEARCH AND INJURY PREVENTION CENTRE (TRIP-C)	TRIP Centre, which focuses on reducing adverse health effects of road transport, welcomes applications from candidates with demonstrated track record of research and expertise in one or more of: (1) Transport planning and road safety. (2) Sustainable transport safety. (3) Vehicular pollution (air/thermal/noise) (4) Urban studies; (5) Transport equity (6) Automotive safety; (7) Impact biomechanics;(8) Transport economics (9) Transport geography;(10) Statistics, with a focus on population studies and demographics, (11) Injury and chronic disease epidemiology; and (12) Climate change and disaster risk reduction. The area of interest listed here are indicative, not exhaustive.	Other: Candidates who have previously appeared for Stage II interaction will not be considered again for shortlisting until one year after the date of such interaction.
15	YARDI SCHOOL OF ARTIFICIAL INTELLIGENCE (YSCAI)	In all areas of Artificial Intelligence, with sub-areas of interest including (but not limited to) Machine Learning Theory & Optimization, Deep Learning, Representational Frameworks, Computer Vision, Natural Language Processing, Data Science and Data Fusion, Information Retrieval & Recommender Systems, Learning on Graphs, Robotics, Multi-agent Systems, Embodied AI, Reinforcement learning, Responsible AI, Fairness in AI based systems, and Applications of AI to Domain areas such as Healthcare, Physical Systems including Energy	**Publication Record:** Candidate is required to fulfil a minimum requirement of 4 papers in the indexed journal/conferences. At least two of these papers should be in reputed venues. The candidate should have demonstrated overall quality of research work, and its impact and relevance for AI.

		Materials and Earth Observation, Human-in-loop Optimization, Generative Design, Scientific Computing, Cognitive and Social Sciences, among others. Additional areas of interest include AI for Edge Computing, AI for Hardware Based Optimization, AI for Mobility, Federated Learning & AI Privacy, AI & Cybersecurity and AI for Policy and Governance. Yardi School of AI strongly encourages applicants who have significant AI depth and/or have a demonstrated track-record of working at the intersection of an application area and the AI fields.	
16	Department of Mathematics	Algebra, Partial Differential Equations, Numerical Analysis, Harmonic Analysis, Topology, Functional Analysis, Theoretical Computer Science, Optimization, Probability, Statistics	**Publication Record: For Grade_II:** At least 4 refereed journal papers indexed in JCR/AMS/ Scopus (of which 3 should be in reputed journals, out of which at least 1 paper published/accepted within the two years prior to the date of application. **Publication Record: For Grade_I:** At least 5 refereed journal papers indexed in JCR/AMS/ Scopus (of which 4 should be in reputed journals, out of which at least 1 paper published/accepted within the two years before the date of application. **(*Reputed Journal Criteria) a)** at least 0.5 JCR impact factor as published by Thomson Reuters. **b)** at least 0.4 MCQ as published by AMS mathSciNet. **c)** Q1, Q2 list of journals of SJR (Scopus) in the subject area). All the above indices are for the year 2023 and were published in the year 2024. **Academic background:** First class or equivalent grade where division is not mentioned, in (Master's degree in Mathematics/ Applied Mathematics/ Operations Research/ Statistics/ Computer Science) and in Bachelor's degree (B.Sc./ B.A/ B.Tech./ B.S. in Science

			or engineering/ technology). If a candidate has only a Bachelor's degree before a Ph.D., he/she must have a first class or an equivalent grade in Bachelor's Degree. **Additional:** If an applicant has been awarded Ph.D. from IIT Delhi, the candidate must have defended the thesis on or before June 30, 2022. The applicant must not have been rejected (either in Stage-II or interview) against any advertised faculty position of IIT Delhi after June 30, 2024.
17	Department of Civil Engineering	**Construction Engineering and Management:** All specializations related to construction engineering and management are included. Candidates with Construction Management, Project Management background will be given preference. **Environmental Engineering:** Solid and hazardous waste engineering, Air pollution control engineering, Water and wastewater engineering, Environmental systems modelling, and Environmental impact analysis. **Geomatics Engineering:** Surveying and levelling, Geodesy, Remote sensing, Photogrammetry, GPS and GIS,	**Publications: * For Grade-I:** At least 6 refereed conference/journal papers (of which at least 4 should be in reputed journals). *** For Grade-II:** At least 4 refereed conference/journal papers (of which at least 2 should be in reputed journals). **Other additional minimum criteria for initial screening:** (a) Journals falling in WEB OF SCIENCE would be considered as reputed journals for recommendation purposes. (b) Moratorium of three years for the candidates who have completed PhD from IIT Delhi. (c) Candidates who appeared for Stage-2 interaction will not be considered for recommendation for a period of two cycles from the last date of submission of the application of cycle considered. **Academic Background:** Bachelor's degree in engineering or technology in Civil/ Construction/

		Drone survey, and related areas; Application of Geomatics in Civil and Environmental Engineering; Algorithm and Technology Development for Geomatic Applications.	Environmental/ Structural/ Infrastructure or any other relevant degree in Engineering or Technology as found suitable by the Professorial Committee based on the recommendation from the respective Group. First class with a minimum of 70% marks or CGPA of 7.0/10 throughout in all the degrees previous to PhD.
		Geotechnical Engineering: Geoenvironmental engineering, Rock engineering.	
		Structural Engineering: All specializations related to Structural Engineering and Construction Materials are included. Candidates with Computational Mechanics background will be given preference.	
		Transportation Engineering: Transportation and traffic planning, Transportation and traffic engineering, Pavement engineering, Freight logistics and planning, Travel behavior, Transport demand modeling, Transport network modeling, Pavement management, Connected autonomous vehicles, Traffic dynamics, AI-ML application in transportation engineering.	
		Water Resources Engineering: All areas of Water Resources Engineering, including experimental and numerical modelling in hydraulics, hydrology, and groundwater. Remote sensing and GIS applications in water resources, agriculture, and hydrogeology.	

संख्या/ No. IITD/IESI/2023/190571   दिनांक/ Dated: 20.09.2023

Subject: Eligibility of the Persons with Benchmark Disabilities (PwBD) for recruitment at IIT Delhi for different Academic positions: regd

A committee was constituted titled "Committee for recruitment issues related to Persons with Benchmark Disabilities (PwBD)" with a mandate to identify faulty positions that can be held by Persons with Benchmark Disabilities (PwBD). The committee submitted its recommendations for the consideration of the Board of Governors (BoG). The Board of Governors (BoG) in its meeting dated 11.08.2023 approved the recommendations of the committee vide resolution number **BG/04/2023.**

The following policy points are approved by the Board of Governors (BoG):

1. Only such persons will be eligible for reservation in service who suffer from not less than 40% of relevant disability duly certified by the Competent Medical Board.
2. As per the Government of India (GoI) rules, in case of direct recruitment, four (04) percent of the total vacancies are to be filled up by direct recruitment in the cadre strength in each group of posts, i.e., Groups A, B, C and D, shall be reserved horizontally for persons with benchmark disabilities.
3. An institute-level reservation will be applicable for PwBDs. No separate academic unit-wise roster will be prepared.
4. The selection committee may take the final call on the ability of the PwBD candidate to undertake research and teaching assignments at IIT Delhi based on their disability as stated in the following table:

Designation	Physical Requirement	Category	Nature of work to be performed	Working condition
Professor, Associate Professor, Assistant Professor and other non-teaching Academic positions.	S (Sitting), SE (Seeing), W (Walking), BN (Bending), MF (Manipulation with fingers)	(a) B (Blind) LV (Low Vision) (b) D (Deaf) HH (Hard of Hearing) (c) OA (One Arm), BA (Both Arms), OL (One Leg), BL (Both Leg), OAL (One Arm and One Leg), LC (Leprosy Cured), Dw (Dwarfism), AAV (Acid Attack Victims) (d) ASD (Autism Spectrum Disorder (M=Mild), SLD (Specific Learning Disability), MI (Mental Illness) (e) MD (Multiple Disabilities) involving (a) to (d) above	They teach UG/PG students under Science/Engineering/ Humanities and Social Science Management/ Policy and Design. They conduct research and guide research work. They deliver lectures and conduct seminars & workshops, set examination papers and evaluate answer books. Maintain class registers and records.	The work is performed mostly inside. The work places are well lighted and assessable. Incumbent needs to be considered with appropriate software and aids & appliances.

The above guidelines are forwarded for necessary information.

(देबरंजन मुखर्जी) / (Debranjan Mukherjee)
उप कुलसचिव (स्था.- I)/ Deputy Registrar (Estt.-I)

To: Heads of all academic units

Copy: DR Director's Office
      Dean (Faculty)