



# DELHI TECHNOLOGICAL UNIVERSITY

(Established by Govt. of Delhi vide Act 6 of 2009)

(Formerly Delhi College of Engineering)

SHAHBAD DAULATPUR, BAWANA ROAD, DELHI-110042

F.DTU/Rectt./POP/2023/F-946/2778

Dated: 15.03.2024

## Advt. No. 03/2024

Delhi Technological University invites applications in prescribed application form from interested individuals for engagement against the post of **Professor of Practice**, in **academic Departments of University as mentioned in the application form**. The above appointments will be initially for the period of upto one year. Please visit the University website [www.dtu.ac.in](http://www.dtu.ac.in) for detailed advertisement having eligibility and general conditions, Duties and responsibilities Procedure for selection and other conditions etc. required for the above mentioned post. The last date for submission of application form is 15.04.2024 till 05.00 p.m.

**Registrar**

## **Professor of Practice**

### **Eligibility**

- (i) Distinguished experts who have made remarkable contributions in their professions from various fields such as engineering, science, technology, entrepreneurship, commerce, social sciences, media, literature, fine arts, civil services, armed forces, legal profession, community development, panchayati raj, rural development, watershed development, water-harvesting, organic farming, small green energy systems, municipal planning, community participation, gender budgeting/planning, inclusive development of tribals and public administration among others. Those who have proven expertise in their specific profession or role with at least 15 years of service/experience, preferably at a senior level, will be eligible for Professor of Practice.
- (ii) A formal academic qualification is not considered essential for this position if they have exemplary professional practice in lieu. These experts will also be exempted from the requirement of publications and other eligibility criteria stipulated for the recruitment of faculty members at the Professor level. However, they should possess the skills to carry out the duties and responsibilities specified in the following section.

### **Duties and Responsibilities**

- (i) Involve in the development and designing of courses and curriculum.
- (ii) Introduce new courses and deliver lectures as per institutional policies.
- (iii) To encourage students in innovation and entrepreneurship projects & provide necessary mentorship for these activities.
- (iv) To focus on enhanced industry-academia collaborations.
- (v) Conduct jointly in collaboration with regular faculty member of the institution, workshops, seminars, deliver special lectures and training programmes.
- (vi) Carry out joint research project or consultancy services in collaboration with the regular faculty member of the Delhi Technological University.

### **General Conditions:**

- (i) The engagement of Professor of Practice will be for a fixed term.
- (ii) The engagement of Professor of Practice will be exclusive of the sanctioned posts of a university/college. It will not affect the number of sanctioned posts and the recruitment of regular faculty members.
- (iii) Professor of Practice is not open for those in teaching profession-serving or retired.

## **Categories of Engagement:**

It is envisioned that Professor of Practice can be engaged in one of the following categories:

- (A) Professor of Practice funded by Industries
- (B) Professor of Practice funded by University from their own resources
- (C) Professor of Practice on Honorary basis

### **A. Professor of Practice funded by Industries:**

Today's industry looks for graduates with specific skill sets. But the higher education system is churning out graduates who fall short of the required skills. As a result, many industries now hire graduates and provide adequate training before employing them. Involving experts from industry in teaching will benefit both the industry and the higher educational institutions. For engaging industry experts and professionals in this category, DTU will collaborate with the industries to support the Professor of Practice positions.

### **B. Professor of Practice funded by HEIs from their own resources:**

As per the policy directives of NEP 2020, graduate programmes are revised with the holistic and multidisciplinary approach. DTU will assess the required gap areas in different fields and engage experts working in leadership positions in various fields. In this category, the remuneration for the Professor of Practice will be made by the University from its own resources.

### **Remuneration:**

Part-time/Full-time engagement: Consolidated amount, mutually agreed between the institution and expert.

### **C. Professor of Practice on Honorary basis:**

Experts fulfilling the eligibility criteria for the Professor of Practice may like to share their expertise with students and come forward to teach on honorary basis. Such experts may be engaged on honorary basis as Professor of Practice and their services may be utilized for the benefit of the students.

The University will decide the amount of honorarium to be paid to the Professor of Practice in this category from their own resources.

## Tenure

The engagement may be initially for up to one year. At the end of the initial engagement or subsequent extension, the Delhi Technological University will make an assessment and take the decision about extension. The Delhi Technological University will devise its own assessment procedure for extension based on the contribution and requirement of the experts engaged as Professors of Practice.

The maximum duration of service of Professor of Practice at a given institution should not exceed three years and is extendable by one year in exceptional cases and the total service should not exceed four years under any circumstances.

### **Name of the Departments with Gap Areas (Total No. of Positions: 67)**

SNO	Name of the Department	GAP AREAS
1	Applied Chemistry	<b>Chemical Engineering:</b> Green Hydrogen Production, Catalysis, Chemical Process Design, Process Control and Instrumentation <b>Chemistry:</b> Medicinal Chemistry, Quantum chemistry, Cheminformatics, Agro-Based Industry, Sensing/Bio sensing
2	Applied Mathematics	Computer related: AI, COA, DBMS, Data Structure, OS, OOPs, Software Engineering, Statistics/Stochastic process, OR (Operation Research)
3	Applied Physics	Semiconductor Technology, VLSI Technology, Li-ion batteries, Photonics Technology, Solar glass Science and Technology, Fuel Cell Technology
4	Bio Technology	Drug Discovery, Instrumentation, Agriculture, Food Technology, Next Generation Sequencing, Artificial Intelligence in healthcare, Biomedical devices and diagnostics
5	Civil Engg Deptt	<b>Structures:</b> Forensic structural engineering, Structural health monitoring <b>Geotechnical:</b> Rock Engineering, Tunneling Geoenvironmental Engineering, Geologist <b>Hydraulics:</b> Flood Engineering, Glaciology, risk analysis, GIS hydrologic modeling, <b>Allied:</b> Construction technology and management, Computer Aided Design, Transport systems, Urban Planning, Geomatics
6	Computer Science Engineering	Reinforcement Learning; generative AI and Large language Model Operations (LLMops); Quantum Computing; MLOps (Machine Learning Operations); Cloud Computing; Deep Forensic; Cyber Security; Cyber Security; Efficient Machine Learning; Augmented and Virtual Reality:
7	Delhi School of Management	Business Analytics, Managerial Application of Artificial Intelligence, Big Data and Machine Learning, Digital Business Models
8	Department of Design	<b>Product Design:</b> Medical Equipment Design, Cognitive Ergonomics, <b>Interaction Design:</b> AR/VR. Service Design User Experience Design, Design Thinking, <b>Visual Communication:</b> Film & Sound Design, Animation, Typography <b>Transportation Design:</b> Mobility and Vehicle Design, Automotive Design & Development, <b>Fashion Design:</b> Pattern Making and garment Construction
9	Electronics and Communication Engineering	VLSI Technology, Computer Vision and Image Processing, Next generation wireless network, Device Fabrication, RF and Microwave Technology, IOT and embedded system, Quantum Technology, Cyber Security, Data Science and Artificial Intelligence, Robotics, Unmanned aerial Vehicle(UAV) Technology, Signal Processing in healthcare,
10	Electrical Engineering	Artificial Intelligence & Machine Learning, EV and related Technology, Micro Electronics and Embedded System, Intelligent Transportation, Renewable Energy Systems

11	Environmental Engineering	Environmental Health & Risk Assessment, Water and Wastewater Treatment and Design, Environmental Audit, Climate Change, Climate Modelling, Remote Sensing & GIS Solid Waste Management, Environmental Planning and Policy, Energy and Environment, Biostatistics/environmental statistics/ecological statistics, Environmental Biotechnology, Environmental Management, Environmental Communication
12	Information Technology	Generative AI, Responsible AI, Cyber Security, Cloud Computing, Computer Security, Blockchain Technology, Cyber Forensics, Ethical Hacking, Internet of Things, DevOps, Full-stack developer, Software Development, Cognitive Science, Human Computer Interaction, Augmented Reality and Virtual Reality, Game Theory, Data Science and Analytics, Quantum Computing, GPU computing
13	Mechanical Engineering	Mechatronics, Computer Aided Manufacturing, Automobile Engineering, Non-Conventional Methods of Manufacturing/Machining, Computer Aided Analysis and Design, Operations and Supply Chain Management, Power Plant Engineering, Manufacturing Technology, Alternate Fuels, Refrigeration and Air conditioning, Energy Systems, robotics and Drones.
14	University School of Management & Entrepreneurship (USME)	<b>Management:</b> Business Analytics, Business Strategy, Venture Development and Entrepreneurship, Operation Management, Project Management, Supply Chain, Vendor Management, Value Chain, Distribution Network, Service Operations, E-Commerce and Digital Marketing, Business Communication- negotiation, Conflict Management, Organizational Development-Go to Market Organisation <b>Economics:</b> Quantitative and Survey based research for modelling, forecasting and advanced econometric analysis, Modelling and analysis in Banking, Sustainability, Scenario Building & Consulting, Policy BFSI Think Tanks and Global Organization like IMF, World Bank, ADB etc

Interested persons may download application form, available on DTU website along with detailed advertisement. They are required to send the hard copy of their duly filled-in application form, in original, along with the desired/relevant documents to the office of the **Director, Recruitment Branch, Delhi Technological University, Shahbad Daulatpur, Bawana Road, Delhi-110042 latest by – 15.04.2024 till 05.00 p.m.** (In case the closing date happens to be a public holiday the next working day will be the last date for receiving of applications).

Note:

- (i) Mere fulfilling the minimum essential qualification and experience shall not entitle a candidate to be necessarily called for the interview.
- (ii) The University reserves the right to fill or not to fill the post advertised. No reason for the same shall be communicated.

**Registrar**