INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS, NEW DELHI - 110016

ADVERTISEMENT NO. 02/2015 (E - I)

ADVERTISEMENT FOR VARIOUS ACADEMIC POSITIONS

IIT Delhi invites applications from qualified Indian Nationals, Persons of Indian Origin (PIOs) and Overseas Citizens of India (OCIs) for the following positions in the various Departments/Centres/Schools (in the fields mentioned alongwith them) are available : -

Table-A

Post	Pay Band
Professor	Rs. 37400-67000(minimum pay of Rs.48000/-)+ AGP Rs.10500/- (Pay Band-4)
Associate Professor	Rs.37400-67000 (minimum pay of Rs.42800/-)+ AGP Rs.9500/- (Pay Band-4)
Assistant Professor and Assistant Professor (on contract)	Candidates can apply any time during the year against rolling advertisement which is already on the Institute Website (Qualification, Experience updated areas of Specializations and Pay Band available on website (**https://recruit.iitd.ac.in**)), Candidates with Ph.D. but with less than 3 years experience can be considered for Assistant Professor on contract on pay as approved by the Board of Governors.

Qualified persons include:

(a)   Indian Nationals,

(b)   Foreign Nationals who are "Persons of Indian Origin" (PIO) or Overseas Citizens of India (OCI), in whose case, if selected, permission will be sought from Govt. of India before he/she can join IIT, or

(c)   Other Foreign Nationals, in whose case, if selected, appointment will be on a contract basis for up to 5 years subject to permission from the Govt. of India before he/she can join IIT.

(d)   Institute specifically encourages applicants from SC/ST/OBC category as well as persons with disability to apply for these positions.

DEPARTMENTS :

1. **APPLIED MECHANICS** : Materials Science and Engineering, Design Engineering, Solid Mechanics, Fluid Mechanics and interdisciplinary areas of Mechanics including but not restricted to Biomechanics, Multifunctional materials, Solid – Fluid interaction, Naval Architecture etc.

2. **BIOCHEMICAL ENGG. & BIOTECHNOLOGY** : Biochemical Engineering, Chemical Engineering and Molecular Biology.

3. **CHEMICAL ENGG.** : Renewable and Conventional Energy Technologies, Interfacial Engg. and Nanotechnology, Molecular to Process Scale Modeling and Simulation, Optimization and Process Control, Bio-processing for Pharmaceutical and Healthcare Technology, Environment Technologies, Advance Novel Materials.

4. **CHEMISTRY** :   Biophysical Chemistry, Chemical Biology (Peptide Chemistry), Asymmetric Catalysis.

5. **CIVIL ENGG.** : **Environmental:** Water and Waste Water Engg., Air Pollution Control Engg., Solid and Hazardous Waste Engg., **Geotechnical:** Geotechnical Engg., Rock Machanics, Rock Engg., **Structures:** Structural Engg., Construction Materials, Construction Management, **Transportation:** Transportation and Traffic Planning, Transportation and Traffic Engg., Pavement Engg., , **Water Resources:** Water Resources Engg. and Related Areas.

6. **COMPUTER SCIENCE & ENGG.** : High Performance Computing and Visualization, Machine Learning and Artificial Intelligence, Wired and Wireless Networks, Mobile Computing and Machine-to-Machine(IOT), Algorithms & Complexity, Logic & Verification, Information Management, Data Science & Big Data, Computer Vision, Graphics & Robotics,   Programming Languages, Semantics, Analysis & Language Implementation, Distributed & Multicore Computing, Operating Systems and Cloud Computing,   Cryptography and Systems   Information Security, Human Computer Interaction, Embedded Systems, Computer Architecture, VLSI and Design Automation.

7. **ELECTRICAL ENGG.** : In all areas of Electrical Engineering including Electronics & Circuits, Control & Automation, Communication, Computer Engineering, Power Systems, Power Electronics, Machines & Drives.

8. **HUMANITIES & SOCIAL SCIENCES** :   Economics, English (Literature), Linguistics, Philosophy, Policy Studies, Psychology, Sociology.

9. **MANAGEMENT STUDIES** :   Operations & Supply Chain Management, Marketing Management, Strategic Management, Technology Management, Telecom Systems Management, Human Resource Management, Corporate Law.

10. **MATHEMATICS** : All areas of Pure and Applied Mathematics, Theoretical Computer Science, Probability and Statistics.

11. <u>MECHANICAL ENGG.</u> : Mechanical Design, Production Engg., Industrial Engg. & Thermal Engg. (For more details about specific areas visit http://mech.iitd.ac.in).

12. <u>PHYSICS</u> : All Areas of Physics.

13. <u>TEXTILE TECHNOLOGY</u> : Textile Chemical Processing, Fabric Manufacture, Yarn Manufacture, Fibre Science.

<u>CENTRES</u>

14. <u>APPLIED RESEARCH IN ELECTRONICS</u> : **Microwaves and RF:** RFIC and RFMEMS, Imaging and Surveillance, RF Digital Co-design, Active and Reconfigurable Antennas and Arrays, High Power Solid State Systems, Non-linear Modelling and Measurements, Components & Systems up to THz, **Signal Processing:** Underwater Acoustics, Acoustics for Air and other Media, Speech Processing, Signal Processing for Communications, Sensor Array Signal Processing, Multisensor Fusion, **Microelectronics:** MEMS Sensors and Devices, Process and Device Fabrication Technologies, **Non-destructive Characterization:** Techniques and Systems, THz Devices & Technologies.

15. <u>ATMOSPHERIC SCIENCES</u> : Ocean Modelling, Climate Modelling, Meso-scale Studies, Atmospheric dispersion.

16. <u>BIOMEDICAL ENGG.</u> : Bio-mechanics, Bio-instrumentation, Bio-electronics, Bio-materials.

17. <u>ENERGY STUDIES</u> : **For Associate Professor:** Fuel Technology (Coal, Biomass), Electrical Energy System , Photovoltaic Devices and Systems, Solar Thermal Energy, Energy Economics and Energy Planning, Plasma Science and Technology (Experimental), Internal Combustion Engines and Alternative Fuels.

18. <u>INDUSTRIAL TRIBOLOGY, MACHINE DYNAMICS & MAINTENANCE ENGG.</u> Tribology, Machine Dynamics and Maintenance Engineering.

19. <u>INSTRUMENT DESIGN & DEVELOPMENT</u> : **Optics** with specialisation in optical Instrumentation/Metrology/Optical Engineering, **Electronics** with specialisation in Electronics Instrumentation/Embedded Systems/Power Electronics, **Industrial Design** with specialisation in Product Form and Aesthetics/Human Factor/Product Prototyping/Human Interface Design.

20. <u>POLYMER SCIENCE AND ENGINEERING</u> : Polymer Chemistry/Synthesis, Polymer Blends and Composites, Polymer Rheology and Processing, Polymer Technology, Polymer Nanocomposites.

21. **RURAL DEVELOPMENT AND TECHNOLOGY** : Sustainable Housing and Habitat, Environmental Microbiology for Rural Applications, Rural Energy Systems, Water & Sanitation, Food Technology (processing, food quality and safety), Engineering Design, Rural Technologies and Industries.

SCHOOLS:

22. **BHARTI SCHOOL OF TELECOMMUNICATION TECHNOLOGY AND MANAGEMENT**: All areas of telecom technology and management.

23. **AMAR NATH & SHASHI KHOSLA SCHOOL OF INFORMATION TECHNOLOGY:**   Computational Neuroscience, Medical Applications of Information Technologies, Computational & Systems Biology, Embedded Systems & Sensors, Computer Security, Internet of Things(IoT).

24. **KUSUMA SCHOOL OF BIOLOGICAL SCIENCES:**   Structural and Molecular Virology, Protein misfolding and aggregation, Peptide therapeutics.

MINIMUM QUALIFICATION AND EXPERIENCE:

PROFESSOR/ASSOCIATE PROFESSOR/ASSISTANT PROFESSOR: A Ph.D. with first class or equivalent grade at the preceding degree in an appropriate branch/discipline with a very good academic record throughout.

PROFESSOR: Minimum 10 years Teaching/Research/Industrial experience of which at least 4 years should be at the level of Associate Professor in IITs or in similar institutes of national importance or at an equivalent level in any other Indian or foreign institutions /institutions of comparable standards.

ASSOCIATE PROFESSOR: Minimum 6 years Teaching/Research/Industrial experience of which at least 3 years should be at the level of Assistant Professor or equivalent in IITs or in similar institutes of national importance or at an equivalent level   in any other Indian or foreign institutions /institutions of comparable standards.

Table-B

Post	Pay Band
System Manager (SG)/ Sr. System Programmer (SG)	Rs. 37400-67000(minimum pay of Rs.48000/-)+ AGP Rs.10500/- (Pay Band-4)
Sr. System Programmer/System Manager	Rs.37400-67000 (minimum pay of Rs.42800/-)+ AGP Rs.9500/- (Pay Band-4)
Sr. Programmer/System Programmer	Rs. 15600-39100 With AGP Rs. 8000 (PB-3) With Movement to PB-4: Rs. 37400-67000 With AGP Rs. 9000 after 3 years experience.

COMPUTER SERVICES CENTRE: Systems Programming: Virtualization, AD and LDAP, Kerberos, Network Storage Management Systems NFS and CIFS Shares, Scripting, Systems Programming for Windows, Linux, Mac, Security Infrastructure. **Network Programming:** Firewalls, Network Management, Tools for Email, Webmail, Web-hosting, VPN, https, Proxies, Programming/Monitoring of Switches, Routers, Hubs etc., Network Security Infrastructure. **High Performance Computing:** Systems Management, scheduling, GPU computing, familiarity with Intel-PHI, compiler code optimization for applications in atmospheric sciences, molecular dynamics, computational fluid mechanics, computational biology.

SYSTEM MANAGER (SG)/SENIOR SYSTEM PROGRAMMER (SG):

- Ph.D. in Computer Science/Engineering/Applied Sciences with 10 years experience **OR**
- M.Tech. in Computer Science/Engineering/Applied Sciences with 12 years experience **OR**
- B.Tech. or M.Sc. in Computer Science/Engineering/Applied Sciences or M.C.A. with 14 years experience; and
- First class or equivalent grade in all university-level degrees in respective discipline, with a consistently good academic record;
- Strong academic background and work experience with computer systems or computer systems/applications software   (including high-performance computing) or computer networks;
- Proven technical competence in managing a large complex of computer systems or computer systems/applications software or computer networks or computer/network services; and
- Proven managerial ability to manage a Center offering computer, software or network services, and interfacing with user community.

SYSTEM MANAGER/SENIOR SYSTEM PROGRAMMER:

- Ph.D. in Computer Science/Engineering/Applied Sciences with 8 years experience **OR**
- M.Tech. in Computer Science/Engineering/Applied Sciences with 10 years experience **OR**
- B.Tech. or M.Sc. in Computer Science/Engineering/Applied Sciences or M.C.A. with 12 years experience; and
- First class or equivalent grade in all university-level degrees in respective discipline, with a consistently good academic record;
- Strong academic background and work experience with computer systems or computer systems/applications software (including high-performance computing) or computer networks; and
- Proven technical competence in managing a large complex of computer systems or computer systems/applications software or computer networks or computer/network services.

SENIOR PROGRAMMER/SYSTEM PROGRAMMER:

- Ph.D. in Computer Science/Engineering/Applied Sciences with 3 years experience **OR**
- M.Tech. in Computer Science/Engineering/Applied Sciences with 5 years experience **OR**
- B.Tech. or M.Sc. in Computer Science/Engineering/Applied Sciences or M.C.A. with 7 years experience; and
- First class or equivalent grade in all university-level degrees in respective discipline with a consistently good academic record;
- Strong academic background and work experience with computer systems or computer systems/applications software (including high-performance computing) or computer networks.
- Age preferably below 35 years.

NOTES:

- The areas mentioned above against each Department/Centre/School are only indicative and not exhaustive. The Institute is open to receiving applications from candidates with specialization in these and other related areas.

- If it is felt necessary or desirable, the appointment in a Center or a School may be made jointly with an appropriate Department.

- Government of India policy on reservation of faculty positions/Computer Programming Staff as applicable to IITs, including that for persons with disability, will apply.

- The minimum requirement of qualifications and/or experience may be relaxed in respect of exceptionally outstanding candidates in certain areas.

- A mere fulfillment of required minimum qualifications and experience does not entitle a candidate to be called for an interview/discussion.

- The Institute reserves the right to fill or not to fill the posts advertised.

- No correspondence whatsoever will be entertained from the candidates regarding postal delays, conduct and result of interview, and reasons for not being called for interview or selection.

- Depending upon the qualification and experience, a higher start/salary may be offered in deserving cases.

- Separate online applications must be filled, if a candidate is applying for a faculty position in more than one Departments/Centres/or Schools.

- The candidates called for interview will be paid AC2-Tier by Train/Economy Class by Air or actual expenditure and AC Taxi by road (from Airport/Railway Station/ISBT and back) fare from their place of residence/work and back by the shortest route within India.

IIT Delhi makes every attempt to help faculty members settle in their academic role and to grow professionally. Further details are available at (https://recruit.iitd.ac.in),

This includes only for the posts mentioned in **Table-A:**

1. Initiation grant of up to Rs.10.00 lakhs for research.

2. A cumulative Professional Development Allowance of Rs. 3 lakhs for every block period of 3 years is available to every member of the faculty to meet the expenses for participating in both National and International Conferences, paying the membership fee of various professional bodies, books and periodicals and contingent expenses.

3. Reimbursement of telephone bills up to a ceiling of Rs.1500/-per month.

4. There is provision for payment of relocation allowance to faculty joining the Institute from abroad or from elsewhere in India as per Institute rules, details of which are available on the Institute website.

5. Institute has numerous Chair Professor positions sponsored by Alumni or Industry that enable Professors to a research grant ranging from Rs. 2.00 lakhs – Rs. 6.00 lakhs per year for upto 5 years.

ACCOMMODATION: Suitable residential accommodation as per Institute rules shall be provided on the Campus on joining the Institute (this is subject to availability). With the renovation of many apartments, almost all interested new faculty members would be able to get an apartment soon in the Campus.

ABOUT THE CAMPUS: Extending into an area of 320 acres, the campus is imaginatively laid out with a picturesque landscape with clean and wide roads. The campus provides all essential amenities for community living including Staff Club, Hospital, Shopping Centre, Banks, ATMs, Post Office, Community Centre, etc.

It is a requirement that candidates visit the IIT Delhi website **(https://recruit.iitd.ac.in)**, prepare and submit on-line the completed application for appointment against the above positions. The website also contains useful information on various aspects of working and living at IIT Delhi and on the recruitment process.

As a precaution, after submitting the application through the website, please retain a printed copy of the application with you. Candidates employed with Government/Semi-Government Organizations or with Autonomous Bodies must print a copy of the electronic submission and submit the printed version through proper channel at the address given below.

The last date of receipt of applications is <u>7.9.2015.</u> (Candidates who have applied online at the end of last date please logon to our site (<u>https://recruit.iitd.ac.in</u>) and check the status whether your application is received or not).

<u>All purpose Address:</u>
Joint Registrar (E-I)
IIT Delhi, Hauz Khas,
New Delhi-110016 (INDIA)
Telephone: +91-11-26591716
Fax: +91-11-26597216,
E-mail: <u>ar_e1@admin.iitd.ac.in</u>

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ADVERTISEMENT NO. 02/2015(E-1) FOR VARIOUS FACULTY POSITIONS

Faculty Positions are available at the level of Professor, Associate Professor and Assistant Professor in the following Departments/Centres/Schools:-

DEPARTMENTS	CENTRES/SCHOOLS
Applied Mechanics	Applied Research in Electronics
Biochemical Engineering & Bio-Technology	Atmospheric Sciences
Chemical Engineering	Biomedical Engineering
Chemistry	Energy Studies
Civil Engineering	Industrial Tribology Machine Dynamics & Maintenance Engg.
Computer Science & Engineering	Instrument Design & Development
Electrical Engineering	Polymer Science & Engineering
Humanities & Social Sciences	Rural Development and Technology
Management Studies	Bharti School of Telecommunication Technology & Management
Mathematics	Amar Nath & Shashi Khosla School of Information Technology
Mechanical Engineering	Kusuma School of Biological Sciences
Physics	–
Textile Technology	–

COMPUTER SERVICES CENTRE: Positions available for   System Manager(SG)/Sr. System Programmer(SG), Sr. System Programmer/System Manager, Sr. Programmer/System Programmer.

For details, please visit IIT Delhi website (https://recruit.iitd.ac.in) or see 8.8.2015 issue of EMPLOYMENT NEWS or write to JOINT REGISTRAR(ESTT-I),I.I.T.Delhi, HAUZ KHAS, NEW DELHI -110016 enclosing a self addressed envelope (26cmx11cm) Fax :26597216, or send an e-mail to ar_e1@admin.iitd.ac.in. Last date of receipt of application is 7.9.2015.

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