



**Indian Institute of Information Technology Design and Manufacturing,
Kancheepuram, Chennai – 600127, Tamil Nadu, India
(An Institute of National Importance fully funded by Govt. of India)**

Advt.No.3/2017

Dated: 5th December, 2017

FACULTY RECRUITMENT

Indian Institute of Information Technology Design and Manufacturing, Kancheepuram (IIITDM Kancheepuram) is an Institution of National Importance established in 2007 by the Ministry of Human Resources Development, Government of India. This institute is located at the outskirts of Chennai (approximately 25 Km from Chennai Airport) in the close proximity of the IT corridor, Industrial and Educational Institutions. It is centre of Excellence for pursuing Design and Manufacturing oriented Engineering Education. This institute offers Under Graduate, Post Graduate, Dual Degree programme in the areas of Computer, Electronics, Mechanical Engineering and inter disciplinary Ph.D programmes in the core and applied areas of Science and Engineering. This institute gives significant emphasis for practice courses and theory concepts are also explored along with relevant laboratory courses. In concise, the motto of the institute is "**Learning by Doing**"

IIITDM Kancheepuram invites application from individuals having **Doctoral degree** from reputed Institutions from India and abroad with an established record of high quality research, product design & development and commitment to teaching **for faculty positions at the level of Professor and Associate Professor** under Four Tier Flexible Faculty Structure in the disciplines of Computer, Electronics and Communication Engineering, Mechanical Engineering, Industrial Design & Smart Manufacturing, Mathematics and Physics with areas of specialization, inter alia include the following:

- **Computer Science Engineering**
 - Big Data and Analytics, Artificial intelligence, Cybersecurity, Internet of Things, Augmented and Virtual Reality, Computer graphics and multimedia, Mobile technologies, Cloud computing and cyber-physical systems, Digital Design and Verification, GPU Architectures and Applications, Human Computer Interface, computer vision
- **Electronics Engineering**
 - Autonomous systems, Control and robotics, Microelectronics and VLSI design, Networked embedded systems, Wireless communication, Biomedical systems, Photonics, Computer vision, Smart grid and other energy technologies, Flexible Electronics/Printable Electronics
- **Mechanical Engineering**
 - Computational Geometry, Design for Additive Manufacturing/Shape optimization, Machine Learning, Operations Management/IT enabled Manufacturing, Non-traditional Manufacturing, Renewable energy systems, Additive manufacturing, Advanced Materials & Product Design, FMEA & Design
- **Industrial Design & Smart Manufacturing**
 - Product design, Industrial design, Design Thinking, Smart manufacturing, Digital Plant Integration, sustainable Design & Manufacturing, IIOT, Machine to Machine Communication, Systems Engineering, Big Data
- **Physics and Mathematics**
 - All specialization

2. Detail of Educational qualification and experience required for the post under Four Tier

Flexible Structure:

Particulars	Details	
Designation of the Post and Pay	Professor PB-4 with Academic Grade Pay of Rs. 10,500 (Entry Pay with Basic of Rs.1,59,100 at Pay Matrix level 14A in 7th CPC)	Associate Professor PB-4 with Academic Grade Pay of Rs. 9500 (Entry Pay with Basic of Rs.1,39,600 at Pay Matrix level 13A2 in 7th CPC)
Essential Qualification	Ph.D	Ph.D.
Relevant Experience	10 years after Ph.D or 13 Years total (not counting Ph.D Enrolment period) out of which 07 years are to be after Ph.D; At least three years to be at Associate Professor level in an institution of repute.	06 years after Ph.D or 9 Years total (not counting Ph.D Enrolment period) out of which 03 years should be after Ph.D. Three years at the level of Assistant Professor with AGP of Rs.8000 or equivalent in a reputed university, R&D Lab or relevant industry.
Other essential requirements	Two Ph.D degrees guided in career as sole or principal supervisor. The following during past 4 years;(i) 03 papers in SCI journals (ii)One high value sponsored or consultancy project; (iii) Academic outreach activity equivalent to two self financed courses offered as coordinator and main teacher;(iv) two experiments or computational design projects with added to teaching laboratories where appropriate.	04 Papers in SCI journals after Ph.D; one Ph.D guided as sole or principal supervisor plus one continuing. Two projects ongoing or one ongoing plus one completed. Two experiments or computational projects added to teaching laboratories where appropriate. Academic outreach activity equivalent to two self financed short term courses.
Additional Desirable Requirements	One or more patents, Supervised more than three students for Ph.D Preparing E learning material. At least one-self financed short term course offered every year. Strong liaison with industry. Offering significant support to institute management; High value sponsored or consultancy projects.	01 or more patents; supervising two or more students for Ph.D; strong liaison with industry; Offering courses through application of ICT

AGE: Candidates for Associate Professor and Professor should be preferably below 45 and 50 years of age respectively.

3. Eligible Degrees for Consideration

Candidates shall have superior academic record all through first class or higher grades

Sl. No.	Discipline	Eligibility
1.	Computer Science and Engineering	B.E/B.Tech or M.E/M.Tech/M.Des in Computer/ Electrical/ Electronics/ Electronics & Communication along with Ph.D Degree in Computer Science and Engineering only
2.	Electronics & Communications Engineering	B.E/B.Tech or M.E/M.Tech/M.Des in Electrical Engineering/ Electrical and Electronics Engineering/ Electronics Engineering/ Electronics and Communication Engineering along with Ph.D Degree in Electronics Engineering / Electronics and Communication Engineering only .
3.	Mechanical Engineering / Industrial Design and Smart Manufacturing	B.E/B.Tech or M.E/M.Tech/M.Des in Mechanical Engineering/ /Aerospace Engineering/ Automobile Engineering/ Industrial Engineering/ Instrumentation / Production/ Manufacturing Engineering/ Mechatronics/ CAD/CAM/ CIM and in related areas along with Ph.D in Mechanical Engineering only
4.	Mathematics	Master's Degree in Mathematics/ Statistics/ Computer Science or M.Tech (Industrial Mathematics & Scientific Computing) or any M.Tech degree with Master's degree in Mathematics/ Statistics/ Computer Science along with Ph.D in Mathematics only.
5.	Physics	M.Sc/ M.Sc (Tech) in Physics, Applied Physics, Materials Science/ M.Tech (Solid State Technology)/ M.Tech (Materials Science)/ M.Sc. Applied Optics/ Optoelectronics or equivalent along with Ph.D in Physics only.

4. Instructions for Applicants:

- i. Applicants are required to submit on-line application and the candidates applying for more than one discipline are required to submit application for each discipline separately. Enclosures ,if any, in support of application are to be uploaded as separate documents (pdf preferred)along with the application form.
- ii. A detailed Academic Profile, inter alia, including the following information is required to be submitted:
 - a) A Teaching Plan, indicating core courses from the curriculum of IITDM Kancheepuram (available at www.iiitdm.ac.in) that the applicant can teach and also an expanded statement of his objectives and long term interests in coursework development. In case of candidates having prior teaching experience, the statement should contain student feedback ratings, profiles of 3 best courses taught in the last three years (profile should contain course outline / teaching plan, novel methods used, if any, including online content, term papers, group activity etc.) The statement should also include details of any teaching related awards and details of participation in teacher development programs as participant or as mentor.
 - b) A Research Plan highlighting current and past research interests and achievements as also future plans in the short and long terms. The plan shall also highlights the achievements of guided research scholars especially where one can take pride in the work done or the role played in guiding. In addition, candidates are expected to submit one page abstract of two research proposals after joining the institute.

c) Details of Journal publications :

candidates are expected to upload a list of journal publications along with copies of 4 best papers authored by them in the last 5 years chronologically listing:

Names of authors, Title of the paper, Name of the Journal/Conference, Volume/ Proceedings, pages (from – to), Year, etc. The same shall be grouped as Journal Publications and papers presented at National / International Conferences along with citation count and Journal Impact factors as available.

d) Details of Awards, Patents, Prizes etc., indicating:

Nature, Name of prize/award, awarded by, awarded for, year of award

Name of the patent, year and details about the patent, etc. as well as the candidate's specific contribution vis a vis the Co-inventors.

e) Research Guidance (only Ph.D.with formal Guide Status) :

Research degree, Name of the scholar, Title of the Thesis, Year of award etc (on -going supervision) may also be indicated separately.

f) Details of Externally funded / Sponsored projects :

Title of the project, Duration, Sponsor, Value, Co–investigators, if any, role of the candidate and specific contributions, etc. Candidates should highlight specific contributions, if any, to industry/pointing out the challenges overcome and the value added etc.

g) Industrial Experience and Consultancy: Details of industrial experience and relevance to proposed teaching and research.

h) Other Activities Like:

Lab Experiments added, outreach activity, E learning/ICT based methodology adopted for teaching, Text books and Monographs if any authorised by the candidate along with details, Continuing education programs / conferences organized (as an organizer or co-organizer) etc.

i) Any other relevant but brief information on academic standing.

On the above, the Teaching Plan and Research Plan are not required to be submitted at the time of application. Upon publication of shortlisted candidates, the candidates are required to submit the same within the stipulated time. Further, only in case of shortlisted candidates, References will be invited directly from the referees by the Institute.

4. Support for Professional Advancement of Faculty:

- A Cumulative Professional Development Allowance (CPDA) of Rs.3 lakhs for every block period of 3 years (Rupees one lakh per year) will be made available to every member of the faculty on reimbursable basis to meet the expenses for participation in National and International conferences, Membership fee of professional bodies and contingent expenses.
- Reimbursement of telephone bills up to Rs.750/p.m. and STD facility for office telephone.
- Permission to attend multiple International Conferences without Institute financial assistance.
- Opportunity to interact with industry, other research and professional institutions.
- Encourage for Consultation works with liberal policy.
- Professional visits during vacation period for carrying out scientific research work.
- Facilities for Research and Development activities in all the Departments and Centres.

- Good facilities for computing.
- Well-stocked library.

5. Additional Information

- Permanent faculty positions are open to Indian Nationals, Persons of Indian Origin (PIO) and overseas citizens of India (OCI). Appointment of foreign nationals for fixed period on contract basis is permissible.
- Political and security clearance from Ministries of External Affairs and Home Affairs is necessary in every case for individuals with foreign passports.
- Candidates employed in Government and Semi-Government Organizations, Public Undertakings, University and Educational Institutions must apply through proper channel and are required to submit **No objection Certificate in this regard at the time of interview.**
- The Institute reserves the right to fill or not fill any or all the posts advertised.
- 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.
- The invitation to candidate for interview merely indicates the suitability for the post and conveys no assurance whatsoever that he/she will be recommended or selected or his/her conditions specified in the application will be accepted.
- The Institute reserves the right to screen and call only such candidates as are found prima-facie suitable for being considered by the Selection Committee. Thus, just fulfilling the minimum prescribed conditions would not entitle one to be called for interview.
- No correspondence whatsoever will be entertained from candidates regarding reason for not being called for interview / outcome of interview.
- The Institute may consider candidates whose area of specialization is other than those stated herein, provided these persons have an outstanding record.
- Outstation candidates within India called for personal interview will be paid 2nd Class AC train fare by the shortest route.
- The candidate is responsible for the correctness of the information provided in the application. If it is found at a later date that any information given in the application is incorrect / false the candidature / appointment is liable to be cancelled / terminated.

6. Important dates:

- a) Opening date for on-line application : 07-12-2017
- b) Closing date for on-line application : 31-12-2017

Registrar