Indian Institute of Technology Patna
भारतीय प्रौद्योगिकी संस्थान पटना

Advertisement for Faculty Positions at the level of Assistant Professor and Associate Professor

Advertisement No.: IITP/FACREC/2023/R0017, Dated 16-08-2023

Indian Institute of Technology Patna (IIT Patna) invites applications from bright, qualified, and strongly motivated Indian Nationals and overseas Citizens of India (OCI) with a proven record of high-quality research and commitment to teaching for Assistant Professor and Associate Professor positions at various departments of IIT Patna.

Foreign Nationals may also apply, for appointment to tenure/contractual positions as per MoE, GoI rules.

The department-wise details of the post, required specialization areas, deadline for application, and the tentative schedule for the interview are given below.

Department	Assistant Professor	Associate Professor	Tentative Interview Schedule & Deadline
Computer Science and Engineering	Theoretical Computer Science, Reinforcement Learning for Aerial Robotics, Theoretical Machine Learning, Artificial Intelligence of Things, Edge and Cloud Computing, Services Computing, Communication Networks for UAVs, Quantum Computing, Cyber Security, and Blockchain	All Specializations	**November 2023** **Deadline for application submission: 31/10/23**
Civil and Environmental Engineering	Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering Water Resource Engineering, Construction Material, Building Technology and Construction Management Geomatics and Geodesy	All Specializations	**December 2023** **Deadline for application submission: 30/11/23**
Chemical and Biochemical Engineering	Materials, Energy, and Environment Studies, Biochemical and Bioprocess Engineering, Chemical Process Technology, Modeling, Simulation, and Optimization, Rheology and Multiphase Flow, Process System and Control Engineering, Reaction Engineering & Catalysis, Other Frontier Areas of Chemical and Biochemical Engineering	All Specializations	**October 2023** **Deadline for application submission: 04/10/23**
Electrical Engineering	VLSI Design, Computer architecture & Embedded system, Instrumentation, Terahertz, Radio over fiber, 5G/6G wireless communication, Communication system & networks, Robotics &	All Specializations	**December 2023** **Deadline for application submission: 30/11/23**

Department	Specialization		Month / Deadline
	Automation, Quantum communication & computing, Power System, Renewable energy		
Mechanical Engineering	Mechatronics, Mechanical Design, Manufacturing, Industrial Engineering, Thermal, fluid and energy	All Specializations	**December 2023** **Deadline for application submission: 30/11/23**
Metallurgical and Materials Engineering	Mechanical metallurgy, physical metallurgy, steel, functional and smart polymer, electron microscopy, computational materials science	All Specializations	**November 2023** **Deadline for applications submission: 31/10/23**
Mathematics	Architecture, Computer Network, Data Science & High-Performance Computing, DBMS, Operating System, Deep learning, Theoretical Computer Science, Probability Theory, Statistics, Large Scale and parallel computing, Analysis (Complex, Functional, Harmonic, Operator Theory), Theoretical PDEs, Number theory, Cryptography, Numerical Optimization, Topology	All Specializations	**October 2023** **Deadline for application submission: 04/10/23**
Humanities and Social Sciences	**Management:** Marketing, Finance, Decision Sciences, Operations, General Management, Strategy **Humanities and Social Sciences**: Clinical Psychology, English, Linguistics, Economics preferably Behavioral Economics/ Environmental Economics/ Health Economics/Energy Economics/Mathematical Economics with specialization in optimization	All Specializations	**December 2023** **Deadline for application submission: 30/11/23**
Chemistry	Organic, Inorganic, Experimental Physical Chemistry	All Specializations	**October 2023** **Deadline for applications submission: 04/10/23**
Physics	Condensed Matter Physics (Theory), Optics and Photonics, Non-equilibrium Statistical Mechanics, Plasma Physics, Engineering Physics	All Specializations	**November 2023** **Deadline for application submission: 31/10/23**

1. **Department-specific educational qualifications:**

Department	Educational qualifications
Computer Science and Engineering	B.E./B.Tech./ME/M.Tech. and Ph.D. in Computer Science and Engineering, Information Technology, Artificial Intelligence, and Data Science (or equivalent)
Civil and Environmental Engineering	B.E./B.Tech./B.Sc in Civil/Civil and Infrastructure/Civil and Environmental Engineering, M. Tech./ME degree in all specializations of Civil and Environmental Engineering, and Ph.D. degree in all

	specializations of Civil and Environmental Engineering,
Chemical and Biochemical Engineering	B.E./B.Tech. in Chemical Engineering / Biochemical Engineering / Chemical Technology / Chemical Technology with specializations, ME/M.Tech. and, Ph.D. in Chemical Engineering / Biochemical Engineering / Chemical Technology / Specializations within Chemical Technology
Electrical Engineering	B.E./B.Tech in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Telecommunication Engineering, ME/M.Tech. in Communication Systems, Power Systems and Power Electronics, Micro Electronics and VLSI Design, Control and Instrumentation, Power Electronics & drives and Photonics, and Ph.D, in Electrical engineering, Electronics & Communication, Electrical and Instrumentation
Mechanical Engineering	B.E./B.Tech in Mechanical Engineering or engineering branches with any one of the areas: Aerospace / Aeronautical/ Production /Manufacturing/Automobile / Industrial / Instrumentation / Control / Marine / Mechatronics / Power plant / Energy / Applied Mechanics/Electrical or Electronics with specialization in Mechatronics, M.E./M.Tech. in all streams of the above-mentioned Engineering disciplines, Ph.D. in all above-mentioned Engineering disciplines
Metallurgical and Materials Engineering	B.E./ B.Tech. degree in one of the following streams: Metallurgical Engineering/ Metallurgical & Materials Engineering/ Materials & Metallurgical Engineering/ Metallurgical Engineering & Materials Science/ Materials Science & Engineering/ Polymer Technology/ Polymer engineering/ Polymer science and technology or M.Sc. in physics/chemistry/materials science followed by an M.Tech./M.E. degree in one of the following streams: Metallurgical Engineering/ Metallurgical & Materials Engineering/ Materials & Metallurgical Engineering/ Metallurgical Engineering & Materials Science/ Materials Science & Engineering/ Polymer Technology/ Polymer engineering/ Polymer science and technology. And Ph.D. in metallurgy/materials/polymer.
Mathematics	**For Computer Science background:** - BE/B. Tech/BS in Computer Science/Mathematics and Computing/Information Technology with Ph.D. in related fields **For Mathematical Science background:** - M.Sc. or equivalent degree in Mathematics/ Statistics/ Operations Research with Ph.D. in related fields
Chemistry	B.Sc. in Chemistry/equivalent bachelor's degree, and M.Sc in Chemistry/equivalent master's degree, and Ph.D. degree
Physics	B.Sc. in Physics/equivalent Bachelor degree (B.Tech. in engineering Physics etc.) and Master degree in physics/equivalent (M. Tech. in physics-related subjects). Ph.D. degree.
Humanities and Social Sciences	**Management:** MBA/M. Tech/M.E./ M.Sc./ B.E./B.Tech with Ph.D. in Business Administration/Management (Marketing/Finance/Decision Sciences/Operations /General Management/Strategy) **Humanities and Social Sciences**: MA/M.Sc. with Ph.D. in Economics/ Clinical Psychology/ English/Linguistics/ELT/Digital Humanities

2. Details about post and experience requirements:

a) **Assistant Professor: Grade I**

The candidate should have a Ph.D. degree with first-class or equivalent at the preceding degree in an appropriate branch with a very good academic record throughout and **at least three (03) years of post-Ph.D.** experience in teaching/research/industry.

Assistant Professor: Grade II

The candidates having a Ph.D. degree with first class or equivalent at the preceding degree in an appropriate branch with a very good academic record throughout with less than three (3) years of post-Ph.D. experience will be considered for Grade II.

Pay Scale & Perks:	**Allowances**
i) Assistant Professor (Grade I): Pay level 12 (Rs. 101500-167400) with minimum pay of Rs. 101500/-. **ii) Assistant Professor** (**Grade II**) Pay Level 10 (minimum pay of Rs. 70900/-)	(DA/HRA/TA/Medical/Children Education Allowance) as admissible to Central Govt. Employees from time to time.

b) Associate Professor: The candidate should have a Ph.D. degree with first class or equivalent at the preceding degree in an appropriate branch with a very good academic record throughout and a **minimum of six (06) years** in teaching/research/industry experience of which **at least three (03) years** should be at the level of Assistant Professor (Grade I)/ Senior Scientific Officer/Senior Design Engineer or equivalent as on the closing date of the advertisement. The candidate should have demonstrated adequate experience of independent research in terms of M.Tech./M.Sc guidance, and Ph.D. student(s), publications in reputed journals and conferences, patents, laboratory/course development and/or other recognized relevant professional activities. It is desirable that the candidate has received external funding for research.

1. Pay Scale & Perks: Associate Professor: To be appointed in Pay Level 13A2 (Rs.1,39,600- 2,11,300/-) with minimum pay of Rs. 139600/- per month	**Allowances** (DA/HRA/TA/Medical/Children Education Allowance) as admissible to Central Govt. Employees from time to time.

3. Age requirements:

- Preferably below 35 years for **Assistant Professor Grade – I**
- Preferably below 32 years for **Assistant Professor Grade – II**
- Preferably below 45 years for **Associate Professor**

4. Age relaxations and reservations for reserved categories:

- Reservation of vacancy and age relaxation are applicable as per the Govt. of India rules without any compromise on qualification, experience, and competence.
- Age relaxation for reserved candidates is admissible as per Govt. of India guidelines as follows: i.e., SC/ST – 5 years, OBC-NCL – 3 years, EWS – No age relaxation, PD – 10 years.
- Candidates from the industry having excellent R&D records evidenced through publication/patents/product development may be considered for age relaxation.
- Exceptional candidates with proven credentials in terms of education qualification like B. Tech. from IITs/Ph.D. from top Universities, quality publications may be considered for age relaxation.

5. Perks and facilities:

- A cumulative professional development allowance of Rs.3.0 lakhs for every block period of 3 years (Rs.1 lakh per year) will be available to every faculty member to meet the expenses for participating in both National and International Conferences of various bodies and for contingency expenses for teaching/research.
- Reimbursement of Relocation charges as per the Institute rules.
- Comfortable on-campus accommodation subject to availability in lieu of HRA, free internet facility, and reimbursement of telephone bills as per the institute rules.
- Support for setting up the research laboratory in the frontier area of research is provided.
- 24x7 health care facilities, campus schools, etc.
- Other Benefits as per Institute and GoI rules.

6. Submission of applications and other important information:

- Interested candidates should apply online at **https://facrect.iitp.ac.in** only. **The hard copy of the online application is not acceptable.**
- Applicants employed in Government, Semi-Government, and Autonomous Organizations should submit their applications **THROUGH PROPER CHANNELS.** Else they will be required to produce a **NO OBJECTION CERTIFICATE** from their employer at the time of the interview.
- Applicants desiring to apply for more than one department should submit a separate application for each department.
- The Institute reserves the right to consider filling or not filling positions in any of the above/and or any other specialization(s)/Department(s). The Institute has the right to set different as well as higher norms while short-listing, considering the specific requirement of the individual departments. Mere fulfillment of the qualification requirements does not entitle candidates to be called for an interview.
- **As per the mission recruitment initiative of Govt. of India, candidates from reserved categories (SC/ST/OBC/EWS/PD) are encouraged to apply.**

7. Deadline of advertisement:

- **Applications received up to the deadline mentioned for a particular department will be considered for the next round of interviews**.
- **For any further information, please contact facrecrt@iitp.ac.in**