



भारतीय प्रौद्योगिकी संस्थान पटना
INDIAN INSTITUTE OF TECHNOLOGY PATNA
Kanpa Road, Bihta, Patna – 801103, Bihar, India

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

Advertisement No.: IITP/FACREC/2024/R0018. Dated: 16-October-2024

Indian Institute of Technology Patna (IIT Patna) invites applications from bright, qualified, and strongly motivated Indian Nationals & overseas citizens of India (OCI) with a proven record of high-quality research and commitment to teaching for Assistant Professor, Associate Professor and Professor positions at various departments of IIT Patna. Foreign Nationals may also apply, for appointment to tenure/contractual positions as per Ministry of Education (MoE), Government of India (GoI) rules.

The department-wise details of the post and required specialization areas, are given below:

Department	Assistant Professor	Associate Professor	Professor
Computer Science and Engineering	Artificial Intelligence, Deep Learning, Natural Language Processing, Computer Architecture, Cyber Security, Data Science, Theoretical Machine Learning, Internet of Things, Quantum Machine Learning, Generative AI, Blockchain, Cloud Computing	All Specializations	All Specializations
Civil and Environmental Engineering	Geotechnical Engineering <ul style="list-style-type: none">• Computational Geomechanics• Rock Mechanics• Energy Geotechnics• Offshore Geotechnics• Forensic Geotechnics• Geohazards• Geotechnical Instrumentation Structural Engineering <ul style="list-style-type: none">• Bridge Engineering• Wind Engineering• Computational Mechanics Transportation Engineering <ul style="list-style-type: none">• Urban Transportation Planning• Freight Transport• Road Safety• Air transportation planning & operations Environmental Engineering <ul style="list-style-type: none">• Climate change• Sustainable Engineering & Life Cycle Assessment (LCA)• Air Pollution Water Resources Engineering <ul style="list-style-type: none">• Water Resources Systems Engineering• Hydraulic Structures• Irrigation and Water Power Engineering• River Engineering/River morphology/Sediment transport• Hydro-meteorology/Climatology• Coastal Engineering	All Specializations	All Specializations



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Department	Assistant Professor	Associate Professor	Professor
	Geomatics <ul style="list-style-type: none"> • Photogrammetry • Geodesy • Geographic Information science & Geo-computation • Hyperspectral Remote Sensing Construction Technology & Management. <ul style="list-style-type: none"> • Construction Management • Urban & Regional Planning • Automation & Robotics in Construction • Building physics & Modelling 		
Chemical and Biochemical Engineering	Colloids, surfaces, and interface science; Rheology and Transport processes in single- and multiphase systems; Process optimization and intensification; Energy storage, materials, conversion, and management; Biotechnology/bioengineering/bio-systems; Chemical process technology,	All Specializations	All Specializations
Electrical Engineering	Power Systems, Power Electronics, Control Systems, Communication Networks, Signal Processing, Microelectronics & VLSI, Analog & Mixed Signal Systems, Computer Architecture & Embedded system, Instrumentation	All Specializations	All Specializations
Mechanical Engineering	Fluid and Thermal <ul style="list-style-type: none"> • Energy storage system • Fuel cell technology • MEMS • Climate change modelling and atmospheric science Manufacturing <ul style="list-style-type: none"> • Metal Casting • Polymer Composite • CAD/CAM • Precision Manufacturing • Additive Manufacturing • Industrial Engineering and Ergonomics Mechanical Design <ul style="list-style-type: none"> • Dynamics • Control Mechatronics <ul style="list-style-type: none"> • Robotics • Mechatronics 	All Specializations	All Specializations
Metallurgical and Materials Engineering	Extractive and process metallurgy, Iron and steel making, Computational materials science, Nano materials, Physical metallurgy	All Specializations	All Specializations
Mathematics	Computer Architecture, Computer Network, IoT, High-Performance Computing, Machine Learning, Pattern Recognition, Image Processing, Theoretical Computer Science, Probability Theory, Statistics, Stochastic Processes, Number Theory, Complex Analysis, Functional Analysis, Harmonic Analysis, Operator Theory, Theoretical Differential Equations, Mathematical Optimization, Topology, Algebraic Geometry, Representation Theory, Scientific Computing, Graph Theory	All Specializations	All Specializations



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Department	Assistant Professor	Associate Professor	Professor
Humanities and Social Sciences	<p>Economics: Game Theory; Behavioral Economics; Endogenous Growth model with expertise in dynamic modelling like DSGE; Mathematical Economics; Artificial Intelligence and its applications in Economics; Environmental Economics, Urban and Regional Economics, Public Finance, Labor Economics, Mechanism Design, Development economics</p> <p>English : Cultural Studies; Digital Humanities; Media Studies; Business Communication</p> <p>Linguistics : Applied Linguistics; Computational Linguistics; Sanskrit Language and Linguistics</p> <p>Management : General Management; Operations; Decision Sciences; Finance; Accounting; Marketing; Public Policy; Agribusiness</p> <p>Sociology : Urban Studies; law and Governance; Disaster Studies; Sociology of Development; Rural Sociology; Applied Sociology</p> <p>Psychology : All areas</p> <p>Philosophy : All areas</p>	All Specializations	All Specializations
Chemistry	<p>Organic Chemistry</p> <ul style="list-style-type: none"> • Organic Catalysis • Asymmetric Synthesis • Bio-organic Chemistry <p>Inorganic Chemistry</p> <ul style="list-style-type: none"> • Main Group Chemistry • Organometallics • Bioinorganic Chemistry <p>Physical Chemistry</p> <ul style="list-style-type: none"> • Experimental Bio-Physical • Experimental Electrochemistry <p>Chemical Engineering</p> <ul style="list-style-type: none"> • Fluid Mechanics • Chemical Process Calculation 	All Specializations	All Specializations
Physics	High-energy Physics, Statistical and Non-Linear Physics, Biophysics, Atomic & Molecular Physics, Quantum Optics and Information	All Specializations	All Specializations

1. Educational qualifications for different departments:

Department	Educational qualifications
Computer Science and Engineering	Ph.D. in Computer Science and Engineering (or an equivalent branch). Further, the candidate should be B. Tech and/or M. Tech in Computer Science and Engineering, Artificial Intelligence and Data Science or equivalent
Civil and Environmental Engineering	BE/B. Tech/4-year B.Sc. (Engineering.) in Civil/Civil and Infrastructure/Civil and Environmental Engineering/Construction/Environment/Structural/Infrastructure or any other relevant area of Civil Engineering or Technology AND Ph.D. degree in all specialization of Civil and Environmental Engineering or any other relevant areas of Civil Engineering or Technology



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Department	Educational qualifications
Chemical and Biochemical Engineering	B.Tech. / B.E. / 4-year B.Sc. (Engineering) in Chemical Engineering / Biochemical Engineering / Biotechnology / Bioengineering / Chemical Technology / Chemical Technology with specializations, and Ph.D. in relevant areas <p style="text-align: center;">OR</p> M.Sc. in Biotechnology followed by M.Tech. in Chemical Engineering / Biochemical Engineering / Biotechnology / Bioengineering / Chemical Technology / Chemical Technology with specializations, and Ph.D. in relevant areas
Electrical Engineering	B.E/B.Tech in Electrical, Electrical and Electronics engineering, Electronics and Communication Engineering, Electronics and Telecommunication engineering, Instrumentation and Control Engineering AND Ph.D. in Electrical engineering, Electronics & Communication, Electrical and Instrumentation, Instrumentation and Control
Mechanical Engineering	B.E./B.Tech in Mechanical / Aerospace / Aeronautical / Production / Manufacturing / Automobile / Automotive / Industrial / Instrumentation / Control / Marine / Mechatronics / Power plant / Energy / Robotics / Biomedical Design / Engineering Design / Applied Mechanics / Electrical or Electronics with specialization in Mechatronics AND Ph.D. in any one of the streams of engineering
Metallurgical and Materials Engineering	B.E. / B.Tech., in one of the following streams: Metallurgical Engineering/ Metallurgical & Materials Science & Engineering AND Ph.D. in Metallurgy/Materials. <p style="text-align: center;">‘OR’</p> B.E./ B.Tech. in Mechanical Engineering/M.Sc. in Physics/Chemistry/Materials Science followed by M. Tech. / M.E. degree in one of the following streams: Metallurgical Engineering/ Metallurgical & Materials Science & Engineering AND Ph.D. in Metallurgy/Materials
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.
Humanities and Social Sciences	Economics Graduation in Economics and allied areas/ Statistics/ Mathematics and Two-year Master degree in Economics and allied areas/Statistics/ Mathematics and PhD in relevant areas. English Graduation in English/ELT/ Cultural Studies/ Media Studies/ Digital Humanities and Two- year Master degree in English/ELT/ Cultural Studies/ Linguistics/ Media Studies/ Digital Humanities and PhD in relevant areas. Linguistics Graduation in English/ Linguistics/Computational Linguistics/ Computer Science/ Language Technology/Sanskrit



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Department	Educational qualifications
	<p>and Two- year Master degree in Linguistics/ Computational Linguistics/ Computer Science/ Language Technology/Sanskrit</p> <p>and PhD in relevant areas.</p> <p>Management Graduation in Economics/Mathematics/ Statistics/ Computer Science/Business Management/ Business Studies/ Commerce/Accountancy/ Business Administration/ Public Policy</p> <p>and Two- year Master degree or equivalent in Economics/Mathematics/ Statistics/ Computer Science/Business Management/ Business Studies/ Commerce/Accountancy/ Business Administration/ Public Policy</p> <p>and PhD/ FPM in relevant areas.</p> <p>Sociology Graduation in Sociology/ Social work/Development Studies/ Rural Development/ Education</p> <p>and Two- year Master degree in Sociology/ Social work/Development Studies/ Rural Development/ Education</p> <p>and PhD in relevant areas.</p> <p>Psychology Graduation in Psychology/ Cognitive Science</p> <p>and Two- year Master degree in Psychology/ Cognitive Science</p> <p>and PhD in relevant areas.</p> <p>Philosophy Graduation in Philosophy/ Applied Philosophy</p> <p>and Two- year Master degree in Philosophy/ Applied Philosophy</p> <p>and PhD in relevant areas</p>
Chemistry	<p>Ph.D. in relevant areas with Pre-PhD Bachelor's Degree (four-year BSc/BS/B.Tech. in Chemistry/Applied Chemistry/Chemical Engineering/ Chemical Technology/Chemical Science & Technology).</p> <p style="text-align: center;">'OR'</p> <p>Ph.D. in relevant areas with Pre-PhD Master's Degree (two years MSc/MS/M.Tech) and Bachelor's Degree (three years BSc/BS in Chemistry/Applied Chemistry/Chemical Engineering/Bio-chemistry/ Chemical Technology/Chemical Science & Technology)</p>
Physics	<p>Ph. D in Physics with M. Sc/MS/M. Tech/ Equivalent Master's Degree in Physics/Engineering Physics and B. Sc/ Equivalent Bachelor's Degree in Physics/Engineering Physics Or Ph. D in Physics with B. Tech in Engineering Physics/BS in Physics</p>



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2. Details about post and experience requirements

Basic qualification and experience for the posts are given below.

Closing Date: Qualification and experience will be reckoned as on the closing date of the advertisement (which will subsequently be intimated at the IIT Patna website for each department).

a) Assistant Professor

Assistant Professor (Grade II): The candidate 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 3 years of post-Ph.D. experience will be considered for Grade II.

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 as on the closing date.

Pay Scale & Perks: i) Assistant Professor (Grade II) Pay Level 10 (minimum pay of Rs. 70900/- per month) ii) Assistant Professor (Grade I) Pay level 12 (Rs. 101500-167400) with minimum pay of Rs. 101500/- per month	Plus, allowances (DA, HRA, TA, Medical, Children Education Allowance) as admissible to Central Govt. Employees from time to time.
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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. The candidate should have produced at least one (01) Ph.D. student (degree awarded) as on the closing date of the advertisement. The candidate should have demonstrated adequate experience of independent research in terms of M.Tech./MSc 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: Pay Level 13A2 (Rs.1,39,600- 2,11,300/-) with minimum pay of Rs. 139600/- per month	Plus, allowances (DA, HRA, TA, Medical, Children Education Allowance) as admissible to Central Govt. Employees from time to time.
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c) Professor: The candidate should have a Ph.D. degree with first class or equivalent at the preceding degree in appropriate branch with a very good academic record throughout and a minimum of ten (10) years in teaching/research/industry of which at least four (04) years should be at the level of Associate Professor or equivalent as on the closing date. The candidate must have produced at least two (02) Ph.D. students (degree awarded) as on the closing date of the advertisement. The candidate should have demonstrated adequate experience of independent research in terms of M.Tech./MSc 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: Professor: Pay level 14A (Rs.1,59,100-Rs.2,20,200) with minimum pay Rs.1,59,100/- per month.	Plus, allowances (DA, HRA, TA, Medical, Children Education Allowance) as admissible to Central Govt. Employees from time to time.
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3. Age limit

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

4. Reservations and relaxations

- Reservation and age relaxation are applicable as per Government of India rules without any compromise on qualification, experience, and competence.
- Age relaxation for reserved candidates is admissible as per Government of India guidelines as follows:
SC/ST – 5 years, OBC-NCL – 3 years, EWS – No age relaxation, PwD – 10 years.
- Candidates from the industry having outstanding R&D records evidenced through publications/patents/product development may be considered even without guiding a Ph.D. student.
- Age relaxations may be made, if needed, for candidates with past relevant experience in academia, industry, and R&D laboratories with outstanding performance records.
- Exceptionally meritorious candidates in any area of specialization pertaining to the said department may also be considered.

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 member of the faculty on reimbursable basis 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 up to a maximum of Rs. 1.0 lakh to the faculty members at the time of joining the institute.
- Comfortable on-campus accommodation subject to the availability with adequate security in lieu of HRA, free internet facility, and reimbursement of telephone bills as per IIT Patna rules.
- Support for setting up research laboratory in the frontier area of research is provided.
- In-campus hospital with pathological testing, X-Ray, ECG etc. facility and quality schooling for children. Other Benefits as per Institute and Gol rules.

6. Submission of applications and other important information

- Interested candidates should apply online at <https://facrecrt.iitp.ac.in/> only.
- Please note, once you submit your application in the online portal, the PDF format of your application will be generated. **Please save the PDF version of your application for future reference.** In addition, it is desirable to send the hard copy of the application along with all the supporting documents to the following address: “**Faculty Recruitment Cell, R103, Faculty Affairs Office, Admin Building, Indian Institute of Technology Patna (IIT Patna), Bihta, Patna -801103, Bihar, India.**” Please send the hardcopy of your filled/signed application (along with the supporting documents) to the above-mentioned address within 2 weeks from the date of submission of your application in the online portal.
- **In case of any difficulty in filling the online application, please write to us in the email id's shown below (please ensure to add both the email id's while communicating to us):** facrecrt@iitp.ac.in and facrecrtiitp@gmail.com.



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- Applicants who are employed in Government, Semi-Government, Autonomous Organizations should send their applications **THROUGH PROPER CHANNEL**. Else they will be required to produce a **NO OBJECTION CERTIFICATE** from their employer at the time of interview.
- Applicants desiring to apply for more than one department should submit separate applications for each department.
- The Institute reserves the right to consider to fill or not to fill 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 mission recruitment initiative of Govt. of India, candidates from reserved categories (SC/ST/OBC/EWS/PwD) and women applicants are encouraged to apply.
- Institute reserves the right to make any amendment, cancellation and changes in this advertisement in whole or as per part without assigning any reason thereof.

7. Deadline of advertisement

This is a ROLLING ADVERTISEMENT. There is no a particular last date for this advertisement. The closing date of the advertisement will subsequently be intimated at the IIT Patna website for each department.

For any further information, please contact facrecrt@iitp.ac.in and facrecrtiitp@gmail.com. (please ensure to add both the email id's while communicating to us).