



Rolling Advertisement for various Faculty Positions

Indian Institute of Technology Jodhpur (IIT Jodhpur) invites online applications from Indian Nationals, Persons of Indian Origin (PIOs), Overseas Citizens of India (OCI) and Foreign Nationals* (other than PIOs and OCIs) possessing exceptional academic record, high-quality research and valuable industrial experience at the levels of *Professor, Associate Professor and Assistant Professor* to carry out outstanding research and teaching in the following Departments/Schools:

* Foreign Nationals will be offered faculty positions for a tenure of three to five years on contract basis.

<i>Department</i>	<i>Key areas of requirement (indicative and not exhaustive; and not limited to these areas only)</i>
Bioscience and Bioengineering	Environment Biotechnology, System biology, Multiomics and Big data, precision medicine, Bioinstrumentation, Biostatistics, Biomaterials, Single-cellomics, metabolomics, proteomics, Mechanobiology, Mechanistic cell biology, Quantitative Biology, Microbiome engineering, Biological data science, Biomechanical Engineering, Microfluidic devices (Lab-on a chip/PoC devices) and Biomechanics.
Chemical Engineering	Systems engineering and control; Sustainable chemical processes and materials; Molecular engineering.
Chemistry	Chemical Biology, Transition Metal Chemistry, Electrochemistry, Physical Organic Chemistry, Supramolecular Chemistry, Bio-inorganic Chemistry, Bio-organic Chemistry, Polymer Chemistry, Natural Product Isolation and Synthesis, Experimental Physical Chemistry.
Civil and Infrastructure Engineering	Hydraulic and Water Resource Engineering: Hydraulic Structures and Hydropower, Urban Flooding and Groundwater, Numerical methods in Hydraulics and Hydrology. Environmental Engineering: Solid Waste Management, Environmental Chemistry, Environmental Microbiology, Air and Water Pollution Control. Geotechnical Engineering and Geological Engineering: Computational Geomechanics. Transportation Engineering: Pavement analysis and evaluation, Transportation System Engineering, Highway Geometric Design, Transportation Planning. Structural Engineering: Materials and Construction Management, Wind Engineering, Earthquake Engineering, Bridge Engineering, AI/ML applications in Structural Engineering, Structural Health Monitoring. Smart Infrastructure Engineering: Cyber Physical Systems for Civil Engineering, AI/ML in Civil Engineering.

Computer Science and Engineering	<p>Core Areas: Cyber Security, Network Security, Cryptography, All areas of Systems, Data Engineering, Database Systems, Operating Systems, Compiler Design, Information Security, Logic and Verification, Cyber Physical Systems.</p> <p>Specialized Areas: Autonomous Systems, Reinforcement Learning, Graphics, AR-VR, Human Computer Interaction, Quantum Computations, Bioinformatics, Data Mining, Theoretical Machine Learning, Natural Language Processing, Speech Processing.</p>
Electrical Engineering	VLSI System Design, RFIC Design, Embedded Systems, Control Systems, Communication Systems, Power Systems, Power Electronics, Electric Drives, Cyber-physical Systems, Microelectronics, Microwave and Photonics.
Metallurgical and Materials Engineering	Extractive Metallurgy, Process Modelling of Metallurgical Processes, Recycling of Materials, Phase Field Modelling, Materials Design using Artificial Intelligence and Machine Learning, Corrosion Engineering, Diffusion in Solids, Computational and Experimental Thermodynamics, Materials for Solar PV and Solar Thermal, Thermoelectric Materials, Materials for Hydrogen Generation and Storage, Polymer Synthesis and Processing, Processing of Ceramics, Polymer Matrix and Ceramics Matrix Composites.
Mathematics	Analysis, Algebra, Geometry, Number Theory, Theoretical Computer Science, Graph Theory, Probability and Statistics, Machine learning and Data Analytics, Quantum Information and Computing.
Mechanical Engineering	<p>Design: Computational Solid Mechanics, Lightweight Structures, Biomechanics and Bio-Design, Multibody Systems, Human Machine Interaction, Soft and Rehabilitation Robotics, Mobility Systems, Automation and Control, Design for X, AI in Design Automation, Optimization.</p> <p>Thermo-Fluids: Non-Newtonian/granular flow, Computational Multiphase/High-speed Flows, Bio-fluidics, Experimental turbulence/combustion, Internal Combustion engines, Gas Turbines, Turbomachinery, HVAC, Fuel Cell, Conventional and Renewable Fuels, Hydrogen Energy, Water Technologies, Wind Energy, Waste to Wealth, Emission Control, CFD.</p> <p>Manufacturing: Metal Casting; Metal forming; Additive Manufacturing; Smart Manufacturing; Advanced Materials Processing (processes/equipment development); Modeling and Simulation of Manufacturing Processes; Manufacturing at Micro- and Nano-scales (Processes and Metrology); Bio-manufacturing; Non-Destructive Testing Techniques.</p>
Physics	Advanced areas of physics including photonics, energy, nanomaterials and nanotechnology, cold plasma, condensed matter physics (experiment and theory), stealth technologies, experimental high energy physics and quantum physics.
School of Artificial Intelligence and Data Science	<p>Foundational AI & DS: Theoretical AI/ML/DS, Quantum AI/ML, Natural Language Understanding/Processing, Computer Vision, Generative AI, Multimodal AI, Ethics and Fairness in AI/ML</p> <p>AI & DS Applications: Augmented Reality, Virtual Reality, Information Retrieval, Medical Robotics, Bioinformatics, Social Network Analysis, Cyber Security, Cyber-Physical Systems, AI-</p>

	<p>based Precision and Integrative Healthcare, Human-Centered AI, Intelligent Infrastructure (Intelligent Transport Systems, Smart Cities, Climate Change, Sustainability and Resilience, Digital Twins)</p> <p>Brain Science and Applications: Brain networks and information processing in the brain; perception, intelligence and cognition; brain-inspired AI and other artificial systems; brain-inspired computer architecture, brain-computer interfaces</p> <p>Mathematical and Computational Economics: Game Theory, Microeconomics, Computational/Algorithmic Techniques in Economics, Behavioural and Experimental Economics, Econometrics, Macroeconomics, Financial Economics, Big Data and Economics, and Economics of AI</p>
School of Management and Entrepreneurship	<p>Accounting & Corporate Finance, Banking and Investment, Risk & Financial Engineering, Business Law, Fintech, Financial Analytics, Business Research Methods and Statistics, Innovation & Entrepreneurship, Incubation management, Intellectual Property Rights, Patents, Geographical Indications, Systems & Design Thinking, Human Capital, Organizational Behaviour, Technology and Digitalization in HRM and OB, Strategic HRM, Marketing Management, Digital Marketing, Marketing Analytics, Customer Relationship Management, Production and Operations Management and Analytics, Technology (Artificial Intelligence, Big Data, Blockchain, Cloud Computing, IoT and other emerging technologies) in Business, Digital Transformation, Management of Cybersecurity, Business Simulation, Strategic Consulting and Negotiation, Economics, Corporate Governance, ESG</p>
School of Liberal Arts	<p>Indian Philosophy, Indian Knowledge System, Economics including Computational Economics, Sociology including Computational Sociology, Psychology, Performing Arts, History, Linguistics, English Language Teaching, Digital Humanities, Education including Pedagogy and STEM Education and Education Technology, Public Health, Public Policy, Political science, International relations, Development Studies</p>
School of Design	<p>Interaction design, AR/VR/MR/XR/Immersive media design, Gaming and Game Design, Animation and VFX, Product Design, Communication Design, Type Design and Typography, Photography and Film Making, Design Research, Design Methodology</p>

IIT Jodhpur reserves the right to focus on specific areas for recruitment as indicated above. The fields mentioned are meant to be indicative of the departments' current requirements, which may change without notice. However, persons with exceptional academic and research record in any area relevant to the department/school will also be considered.

The reservation policy of Ministry of Education, Government of India regarding SC/ST/OBC (NCL)/EWS & Persons with Disabilities (PwD) will be applicable. Necessary supporting certificates must be enclosed with the application form. The number of vacancies is around 50 and the number of vacancies will be liable to change. The extent reservation will be as follows: SC-15%, ST-7.5%, OBC (NCL) - 27%, EWS-10%. Women and PwD applicants are encouraged to apply.

Eligibility requirements

(a) Professor

- (1) Ph.D. with first division in the preceding degree or equivalent in the appropriate discipline, with good academic record throughout.
- (2) At least a minimum of 10 years teaching, research and/or industrial experience, of which at least 4 years should be at the level of Associate Professor in IITs, IISc, IIMs and IISERs or at an equivalent level.

(b) Associate Professor

- (1) Ph.D. with first division in the preceding degree or equivalent in the appropriate discipline, with good academic record throughout.
- (2) At least a minimum of 6 years teaching, research and/or industrial experience, of which at least 3 years should be at the level of Assistant Professor in a reputed Institute or University or equivalent.

(c) Assistant Professor Grade I

- (1) Ph.D. with first division in the preceding degree or equivalent in the appropriate discipline, with good academic record throughout.
- (2) At least a minimum of 3 years teaching, research and/or industrial experience, from the date of defending the Ph.D. Thesis (experience while pursuing Ph.D. Program is not be included).

(d) Assistant Professor Grade II

- (1) Ph.D. with first division in the preceding degree or equivalent in the appropriate discipline, with good academic record throughout.
- (2) Applicants having no or less than 3 years Post-Ph.D. experience will be considered for a contractual appointment of duration less than or equal to 3 years which can be converted into regular position upon review of performance during or after contract period.

The prescribed essential qualifications and experience indicated are bare minimum, and mere possessions of the same will not entitle the applicants to be called for interview. For applicants from Industry background, some relaxation can be made solely based on the discretion of the Institute. The Institute reserves the right to restrict the number of applicants to be called for interview to a reasonable limit, on the basis of qualification and experience higher than that of the minimum prescribed in the advertisement. Therefore applicants should furnish details of all qualifications and experience possessed in the relevant field, over and above (if any) the minimum qualification prescribed along with documentary evidences.

1.1.2 Scale of Pay

Following table provides total approximate emoluments of faculty members at IIT Jodhpur in accordance with Government of India prescribed guidelines. The Selection Committee may accord higher emoluments in case of candidates with exceptional track record.

Designation	Scale of Pay	Approximate Monthly Gross Emoluments with HRA and other allowances as on 30 September 2024
Professor	Pay level 14A; Minimum Basic Pay of Rs. 1,59,100	Rs. 2,72,688
Associate Professor	Pay level 13A2; Minimum Basic Pay of Rs. 1,39,600	Rs. 2,39,928
Assistant Professor Grade I	Pay level 12; Minimum Basic Pay of Rs. 1,01,500	Rs. 1,75,920
Assistant Professor Grade II	Pay level 10; Minimum Basic Pay of Rs. 70,900 (candidates having no post-Ph.D. experience)	Rs. 1,24,512

For example, candidates selected for the position of Assistant Professor Grade II with no post-PhD experience shall be:

- (1) Placed in Pay level 10; with a Minimum Basic Pay of Rs. 70,900
- (2) Elevated after 1 year to Pay level 11; with a Minimum Basic Pay of Rs. 73,100
- (3) Elevated after 3 years to Assistant Professor Grade I; with a Minimum Basic Pay of Rs. 1,01,500

Candidates selected for the position of Assistant Professor Grade I shall be:

- (1) Moved to Pay level 13A1 on completion of 3 years of service as Assistant Professor Grade I; with a Minimum Basic Pay of Rs. 1,31,400

1.1.3 Additional Financial Support to New Faculty Members

The following conveniences are provided to the Faculty Members joining the Institute:

- (1) Reimbursement of Relocation Expenditure
 - Reimbursement of relocation expenses will be given as per institute's norms on submission of original bills, to those Faculty Members who are joining for full-time positions at the Institute from abroad / from any place in India.
 - The reimbursement will be given for one-way economy class airfare by any Airline for faculty members themselves and their family members (as defined in SR 2(8)). As per the Government of India norms, the tickets must be booked either through one of the authorized travel agents M/s. Balmer Lawrie & Company Limited (BLCL) OR M/s. Ashok Travels & Tours (ATT) OR Indian Railways Catering and Tourism Corporation Ltd. (IRCTC).
 - This facility is available only to candidates joining the post of Professor/Associate Professor/Assistant Professor Grade I after executing a bond to serve IIT Jodhpur for 3 Years. Candidates joining the post of Assistant Professor Grade II (On Contract) can become eligible only, if they are offered the post of Assistant Professor Grade I after due review of performance. In such cases, a bond shall be executed to serve IIT Jodhpur for 3 Years after joining the post of Assistant Professor Grade I.
 - The Reimbursement of relocation expenses will be made as under:-

S.No.	Particulars	Financial Limit for Reimbursement of Travelling Allowance and Transportation Charges
1	Faculty Member(s) joining the Institute from within India (From Government/Autonomous / Similar Institutes)	The reimbursement will be governed by the provisions as laid down in the SR-116 and TTA Rules.
2	Faculty Member(s) joining the Institute from within India other than 1 above	The Reimbursement will be up to Rs. 1,50,000/- or actuals (whichever is less).
3	Faculty Member(s) joining the Institute from abroad	The Reimbursement will be up to Rs. 2,50,000/- or actuals (whichever is less). The Faculty Member must join the Institute within a period of three months after returning from abroad.

- (2) Reimbursement of telephone bills as per the Institute norms.
- (3) A Cumulative Professional Development Allowance (CPDA) of Rs. 3 lakhs for every block period of 3 years on reimbursable basis to meet expenses related to participation in national and international conferences, payment of membership fee towards professional bodies, purchase of books and contingency expenses as per Institute norms.
- (4) Research initiation grant of up to Rs. 25 Lakhs (as per the availability of funds).
- (5) International Mobility Research Grant: up to Rs. 5 lakhs to support travel and contingency expenses to the Assistant Professor within the initial period of 3 years from the date of joining to visit the

laboratories of foreign collaborators for a maximum of Institute summer vacation (minimum two months), as per institute norms.

- (6) Transit accommodation for initial period of joining the Institute. Within this period, the Institute will try to offer suitable accommodation on the residential campus, if available. When such accommodation is not available, the employee is required seek private accommodation in the city.
- (7) Medical re-imbursement, as per institute norms.
- (8) Reimbursement of education allowance for children up to 12th Class for the first two children.
- (9) Contribution towards New Pension Scheme (NPS) as per the norms of Government of India.

1.1.4 Other Financial Incentives

Faculty Members who are the fellow of any two of the following academy: (i) Indian National Science Academy (INSA), New Delhi (ii) Indian National Academy of Engineering (INAE), New Delhi (iii) Indian Academy of Science (IASc), Bangalore (iv) National Academy of Science, India (NASI), Allahabad, will be provided an honorarium of Rs. 15,000 per month.

1.1.5 Information regarding the application process

This is a standing advertisement. There is no specific requirement on when a candidate can submit an application. Applications will be accepted throughout the year. Interested candidates may apply with all the details requested in ONLINE application placed on the website of IIT Jodhpur (www.iitj.ac.in).

- (1) All application received until the date of this advertisement will be considered. Applicants who want their applications to be reconsidered are required to reapply.
- (2) Applications will be screened for the interview once every six months or based on the requirement of the department.
- (3) Although recruitment will be prioritized on the basis of need in certain areas within a particular discipline, applications may also be considered from exceptional candidates with background in other areas of the specified discipline.
- (4) In case of exceptional candidates, the Institute reserves the right to relax age, qualifications and/or experience. Applicants are requested to upload the certificates in required format along with the application form.
- (5) The Institute reserves the right to fill or not to fill any or all of the advertised posts.
- (6) Candidates employed in Government and Semi-Government Organizations, Public Sector Enterprises, Autonomous Organizations, University and Educational Institutes must provide 'No Objection Certificate' from their present employer at the time of interview, in case he/she is shortlisted for interview.
- (7) Candidates shortlisted for the Interview will be provided economy class Air-Fare for travel in India (as per Govt. Norms) from the starting airport to Jodhpur Airport and return by the shortest route.
- (8) Application with insufficient information or without relevant supporting documents will not be considered for further processing.
- (9) The Institute may verify the antecedents or documents submitted by a person at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents or background and has suppressed the said information, then his or her services shall be terminated immediately.
- (10) There is no requirement of sending the hard copy of the application.

- (11) Candidates can get in touch with the Head of the concerned Department for additional information & status of application. Contact details of Heads of the Department are available on the Institute website: "<https://www.iitj.ac.in/>."

Dean (Faculty Affairs)