



भारतीय प्रौद्योगिकी संस्थान इंदौर
Indian Institute of Technology Indore
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Advertisement for Recruitment of Faculty Positions

1. Indian Institute of Technology Indore is an Institute of National Importance established in 2009. In a short span of its existence for more than 11 years, IIT Indore has made its presence felt nationally and globally as an Institute of innovation, learning, teaching, and research which is reflected in continuous improvement in its national and international rankings. It is ranked 10th (under Engineering Institute category) by National Institute Ranking Framework (NIRF) of India for the year 2020. It has consistently secured the highest *h*-index amongst all new IITs. It has become the preferred choice for the best of the students, faculty members, and staff members. The Institute offers a conducive environment and infrastructure for learning centric education, research driven teaching, and innovation and application-oriented research. The Institute has very good ecosystem for incubation and entrepreneurship.
2. IIT Indore invites applications from Indian Nationals and OCIs, who are well-qualified and strongly motivated for high quality teaching, research, and innovation. Following are the details of specializations & specific qualification requirements for different positions:

Department/School	Designation	Area of Specialization
Astronomy, Astrophysics and Space Engineering	Assistant Professor	Space Engineering, Space Electronics, Satellite Navigation and Communication, Satellite Payload Design, Satellite Signals Processing, Radio Frequency Instrumentation, Planetary Explorations and Atmospheric Probes, Synthetic Aperture Radar
	Associate Professor	Space and Astrophysical Plasma Modeling and Simulation, Computational Astrophysics
	Professor	Observational Astronomy, Radio Telescope and Instrumentation

Biosciences and Biomedical Engineering	Assistant Professor	Biomedical Engineering, Biomedical Instrumentation, Non-invasive Biomedical Technologies, Tissue Engineering and Organ Development, Bioprocessing and Control
	Associate Professor	Multiscale Modeling of Post translational Protein Modification (PTM), Molecular Dynamics Simulations of Glycans and Protein-glycan Complexes, Structure and Dynamics of Proteins and Nucleic Acids, Biomedical Sensing Devices, Host-pathogen Interaction in the context of Bacteria-Virus-parasitic Co-infection, Neurodegeneration
	Professor	Drug Discovery, Structural Biology, NMR Spectroscopy, Molecular Immunology
Civil Engineering	Assistant Professor	Environmental Engineering, Relevant areas of Water Engineering and Management, Soil Mechanics and Geotechnical Engineering
	Associate Professor	Geotechnical and Structural Health Monitoring, Environmental Geotechnics, Unsaturated Soil Mechanics, Hydrological Modelling of Himalayan Watersheds, Climate Change Impacts on Himalayan Water Resources, Glacier Mass and Dynamic Studies
Computer Science and Engineering	Assistant Professor	Cyber security, Cryptology, Cyber warfare, Security and Privacy, Computer Hardware and Architecture, Cyber-Physical Systems, Computer Networks, Sensor Networks, Data Science, Artificial Intelligence and Machine Learning, Natural Language Processing, Compilers, Operating Systems, Machine Translation, Runtime Systems, Theoretical Computer Science, Algorithms, Computational Complexity, Computational Geometry, Graph Theory, High Performance Computing, Distributed Systems, Game Theory, Data mining, Data Streaming, Databases, Computer Graphics, Virtualization and Cloud Computing
	Professor	Evolutionary Approaches, Soft Computing, Neural network learning algorithms, Embedded Systems, Cyber-physical systems, Internet-of-Things, Wireless Sensor Networks, Autonomous Vehicles

Electrical Engineering	Assistant Professor	Communications and Signal processing, Image processing, VLSI Design, Internet of Things, Optoelectronics, Embedded systems, Nano & Microelectronics, Control Systems, MEMS, RF & Microwave Engineering, Instrumentation, Power Electronics, Power Systems, Areas relevant to Electric Vehicles, Artificial Intelligence and Machine Learning
	Professor	Communications and Signal processing, Image processing, VLSI Design, Nano and microelectronics, Optoelectronics, Solar cell and technology, Organic electronics, Power electronics and Power systems.
Mechanical Engineering	Assistant Professor	Robotics, Prognostics, Smart manufacturing, Industry 4.0, Cyber physical manufacturing system, industrial internet of things, Agent-based approaches for manufacturing, Manufacturing operations planning, Data analytical, data mining, and machine learning for manufacturing, Operations research, Optimization, Areas relevant to electric vehicles.
	Professor	Smart Actuators and Sensors, Laser Micro-manufacturing, Smart Manufacturing, Prognostics, Thermal Spray Coating, Jet Impingement Cooling, Quenching and Rewetting Heat Transfer, Desiccant cooling, CFD and Heat Transfer
Metallurgy Engineering and Materials Science	Associate Professor	Energy Materials, Solidification, Hybrid Materials, Corrosion Engineering, Nanomaterials, Soft Materials, Mechanical Metallurgy, Joining of Materials, Physical Metallurgy, Mechanical behavior of Materials, High Strain Rate Deformation, Synthesis of Superabsorbent Materials, Energy Efficient Coatings, Lightweight components for Transport Applications
	Professor	Hydrogen Generation and Storage, Nanostructured materials for Generation and Storage of Energy and Electronic Devices
Chemistry	Associate Professor	Nanomaterials and Self-assemblies, Organometallic Chemistry
	Professor	Theoretical/Computational Chemistry, Spectroscopy of Nano-biomaterials, Heterocyclic Synthesis, Supramolecular Organic Chemistry, Nanoparticles based Catalysis, Materials Chemistry

Mathematics	Associate Professor	Ranking and Selection, Wave Propagation, Harmonic Analysis, Applied Dynamical Systems, Special Functions
	Professor	Applied Linear Algebra, Numerical Analysis for Differential Equations, Mathematical Logic, Wavelet Analysis, Geometric Function Theory
Physics	Assistant Professor	Optics and Photonics
	Professor	Experimental and Theoretical High Energy Physics, Physics of QGP and String Theory, Experimental condensed Matter Physics, Ferroelectric Materials, Magneto-dielectric/multiferroic Materials, Nano-materials, Nano-devices, Organic/Inorganic Hybrid Materials, Energy Conversion and Storage Materials, Heusler Alloy and Half Metallic Systems, X-ray for Local-structural Studies, Optical Absorption Spectroscopy, Structure Property Correlation and Magnetism.
School of Humanities and Social Sciences	Assistant Professor	English Language Teaching, Psychology
	Associate Professor	Sociology of Religion and Caste, Nationalism, Public Health and Education; Water Governance and Management
	Professor	Sustainability Studies, Productivity Analysis, Resource Economics, Economics of Innovation, Digital Humanities, Postcolonial Studies, Moral and Political Philosophy

3. **Minimum Qualifications and Experience Requirement.**

The qualification and experience required for various positions are enumerated in the subsequent paragraph.

- (a) **Professor:** The minimum requirements for the position of Professor are as follows:
- (i) **Educational Qualification:** Ph.D. with First class or equivalent grade at the preceding degree in the mentioned area of specializations of the concerned Department/School with excellent academic records throughout and outstanding research output.
 - (ii) **Experience:** Minimum **ten years** of **post-PhD** teaching and research or industrial experience or their combination, of which **at least four-year experience** should be at the level of Associate Professor in an IIT, IISc Bangalore, IISER, IIM, NITIE Mumbai or in any such Indian or foreign institutions of comparable or higher standards as ascertained by IIT Indore.

- (iii) **Other Requirements:** Applicant should have demonstrated leadership in research in her/his area of specialization in terms of supervision of PhD and PG students, sponsored research and consultancy projects. He/ She should have very good quality research output in terms of grant of patents, authored books and/or book chapters, publications in high impact factor journals, highly reputed conference proceedings. The applicant is expected to have experience of development of laboratories and course curricula, experience of organizing TEQIP/QIP courses, GIAN courses, participated in schemes such as SPARC, UAY, KIT, IMPRINT and similar academic and outreach activities. The applicant should have hosted/collaborated with other internationally acclaimed academicians and should have organized conferences in his/her area of specialization and having acquired status of an internationally recognized expert, as is expected from Professor in any leading institution.
- (b) **Associate Professor:** The minimum requirements for the position of Associate Professor are as follows:
- (i) **Educational Qualifications:** Ph.D. with First class or equivalent grade at the preceding degree in the mentioned area of specializations of the concerned Department/School with excellent academic records throughout and outstanding research output.
- (ii) **Experience:** Minimum **six years of post-PhD** teaching and research or industrial experience or their combination, of which **at least three years experience** should be at the level of Assistant Professor (Grade-I) / Senior Scientific Officer / Senior Design Engineer or equivalent.
- (iii) **Other requirements:** The applicant should have demonstrated her/his research leadership and output through supervision of PhD and PG students, handling of sponsored research and consultancy projects, grant of patents or good quality publications in high impact factor journals and highly reputed conferences, should have authored book or book chapters. The applicant is expected to have experience of development of laboratories and course curricula, experience of organizing TEQIP/QIP courses, and other academic and outreach activities.
- (c) **Assistant Professor Grade-I:** The minimum requirements for the position of Assistant Professor Grade-I are as follows:
- (i) **Educational Qualifications:** Ph.D. with First class or equivalent grade at the preceding degree in the mentioned area of specializations of the concerned Department/School with excellent academic records throughout and outstanding research output. *An applicant for an engineering department should have done at least BE/ BTech/ BS (Engineering) / Integrated MTech in the relevant department and preferably ME/ MTech/ MS / MS(Research) in the relevant specialization of the concerned department.*
- (ii) **Experience:** Minimum **three year of post-PhD** teaching or research or industrial experience or their combination.

- (d) **Assistant Professor Grade-II:** The minimum requirements for the position of Assistant Professor Grade-II are as follows:
- (i) **Educational Qualifications:** Ph.D. with First class or equivalent grade at the preceding degree in mentioned area of specializations of the concerned Department/School with excellent academic records throughout and outstanding research output. *An applicant for an engineering department should have done at least BE/ BTech/ BS (Engineering) / Integrated MTech in the relevant department and preferably ME/ MTech/ MS / MS(Research) in the relevant specialization of the concerned department.*
- (ii) **Age:** Maximum 35 years as on the last date of submission of online application form.

4. **Pay Structure.**

The pay structure for various positions, as per 7th CPC, are as follows:

<u>Position</u>	<u>Pay Level</u>	<u>Min. Basic Pay/Month (₹)</u>	<u>Total Emoluments including HRA* (₹)</u>
Professor	14A	1,59,100/-	2,20,027/-
Associate Professor	13A2	1,39,600/-	1,94,092/-
Assistant Professor Grade-I	12	1,01,500/-	1,43,419/-
Assistant Professor Grade-II	10	70,900/-	1,02,721/-

*HRA would not be admissible if accommodation is provided within the campus.

5. **Facilities and Allowances.** Other support/ allowances, in accordance with the Ministry of Education, provided are as follows:
- (a) **Relocation Allowance:** Reimbursement of relocation charges of up to ₹1,00,000/- for faculty members joining from abroad for reimbursement of air fare for self & spouse and cost of transportation of goods. Reimbursement of up to ₹75,000/- for self and family and transportation of goods for those joining from within India.
- (b) **Accommodation Facility:** On-campus Residence in the Institute will be provided to the employee in lieu of HRA subject to the availability.
- (c) **Medical Facility:** IIT Indore has well-equipped Institute Health Centre for its employees and their dependent family members. Also, Cashless Out-Patient Department (OPD) and In-Patient Department (IPD) medical facilities in the leading hospitals in Indore is available, in case same is not available at IITI Health Centre.
- (d) **In-campus Education and Day care facility for Children:** There is Kendriya Vidyalaya (KV), Nursery School and Day Care facility available in the Campus of IIT Indore.
- (e) **Cumulative Professional Development Allowance (CPDA):** CPDA of ₹3 lakhs for every block period of 3 years is provided for presenting papers at conferences

and towards membership fee of professional bodies and academic/research related contingency expenditure.

- (f) **Children Education Allowance (CEA)**: Reimbursement of CEA will be applicable for claiming fee reimbursement of two eldest school going children i.e. for children from classes nursery to twelfth @ ₹2,250/- p.m. per child as per GOI norms.
- (g) **Communication Charges**: Reimbursement of communication charges will be done in accordance with the Institute/GOI rules.
- (h) **Newspaper expenses**: Reimbursement of the newspaper charges will be done in accordance with the Institute/GOI rules.
- (i) **SBI Group Insurance Scheme**: SBI Life-Sampoorna Suraksha Group Insurance Policy is optionally available for the Employee joining the Institute with ₹60 lakhs sum insured at a premium of around ₹920/- per month.

6. **Reservation and Relaxation for SC/ST/OBC-NC/PWD/ EWS applicants.**
Reservation and relaxation are applicable as per GOI rules for SC, ST, OBC-NC and Divyaang (i.e. PwD) applicants. The benefit of reservation under Economically Weaker Section (EWS) can be availed on producing an Income and Asset Certificate issued by authorized officials in prescribed format as per GOI norms. Necessary certificates must be enclosed with the application form.

7. **General Instructions.**

- (a) Applicants who have applied against 2019 advertisement or earlier ones, need to apply afresh. Those who have sent earlier their application/CV through email must apply against this advertisement.
- (b) Applications received from applying through the online application portal will only be considered.
- (c) If applying for more than one position, then separate application must be submitted for each position.
- (d) Educational qualifications, experience, other requirements, and age limit mentioned in this advertisement will be reckoned as on **last date of online submission** of the application form.
- (e) Mere fulfilling of the eligibility criteria for any post in any Department/School will not entitle any applicant for being called for interview.
- (f) The Institute reserves the right to fill or not to fill any position in any of the above or any other specializations/Departments/School.
- (g) The Institute reserves its rights to set higher norms for short-listing for any position.
- (h) The received applications will be processed as per the Institute shortlisting criteria. Only the shortlisted applicant will be contacted through the email provided in her/his application form.

- (i) The applicants called for the interview in person will be required to carry all the original degrees and certificates, failure of which, would lead to disqualification of the candidature.
- (j) Applicants called for interview will be reimbursed to and fro airfare by economy class or II AC rail fare from the nearest city of their residence in India by the shortest route. The **air travel** should be done by **Air India only** and **booking of tickets** must be done directly from **Air India website, IRCTC or authorized Travel Agents i.e. M/s Balmer Lawrie & Company Limited and M/s Ashok Travels & Tours (via website/ booking counters/office)** as per the GOI instructions. **Booking done from any other mode will not be admissible for the claim.**
- (k) Applicants from abroad are interviewed through video conferencing and no reimbursement for travel for such applicants will be made. Applicants from abroad, but in India at time of Selection Committee meeting, must attend the interview in person, if called.
- (l) No interim correspondence whatsoever will be entertained from applicants regarding conduct and result of the selection process and reasons for not being called for interview or selection.
- (m) Applicants who are employed in Government, Semi-Government, Autonomous Body or Institution should send their applications **through proper channel**. They will be required to produce the **No Objection Certificate** from their employer at the time of interview.
- (n) Applicant is solely responsible for the correctness of the information provided in the application. If found later, that any information given in the application is incorrect/false, the candidature/appointment is liable to be cancelled/terminated.
- (o) IIT Indore encourages participation of women in teaching and research. Hence, women applicants are encouraged to apply for these positions.
- (p) All reserved category applicants including Divyaang (Person with Disabilities), fulfilling the eligibility criteria are encouraged to apply.
- (q) **Application Fee:** Applicant must pay following non-refundable amount using **net-banking** and upload the UTR/Transaction/Payment reference in the field provided in the online application portal:
- | | | |
|----------------------------------------------------|---|--------|
| SC/ST applicant, Faculty applicant from IIT Indore | : | No Fee |
| OBC-NC, PwD, EWS, and Female applicant | : | ₹500 |
| Others | : | ₹1,000 |
- (r) Noncompliance of the instructions mentioned in this advertisement would lead to disqualification of the candidature.
- (s) The Institute reserves the right to withdraw any advertised post(s) at any time without assigning any reason.

8. **Application Procedure and Submission of Application Form.**

- (a) The applicant must apply online by visiting the website or [Click here to apply ONLINE](#).
- (b) Certificates and relevant documents (including the list of all the publications in the required format) are to be uploaded in **pdf file** in the online application portal. Also, upload pdf files of up to maximum 10 best research papers.
- (c) The applicant is **required to send the hardcopy** of duly signed printout of the **online filled Application Form** along with the **required documents, duly self-attested**, to the following address prescribing on the Envelope **“Application for the position of _____ Department of _____”**.

The Faculty Affairs Office,
6th Floor, Abhinandan Bhavan,
Indian Institute of Technology Indore,
Simrol, Khandwa Road, Indore,
Madhya Pradesh - 453552

- (d) Last date for filling the online application is at **IST 2359 hours on 15th April 2021** and submission of signed hardcopy of the same is **30th April 2021**. The Institute shall not be responsible, under any circumstances, for any sort of postal delay.
- (e) The applicant should retain a copy of the filled application form for future reference.
- (f) The referees should be requested to send the reference letters by email at **fac.recruit@iiti.ac.in** or by post as mentioned above at Para 8(c).
- (g) For any query, please write to **fac.recruit@iiti.ac.in** or call +91(0)731-6603556/3488 (Ext. 3556/3488).

Sd/-
REGISTRAR (I/c)