

**INDIAN INSTITUTE OF TECHNOLOGY MANDI Kamand – 175075, District – Mandi,
Himachal Pradesh, India**

ADVERTISEMENT NO. IIT MANDI/STD/1/2021/Faculty

Dated: January 18th, 2021

IIT Mandi is the first IIT in the Himalayas. IIT Mandi's 530 acre campus is located on the banks of River Uhl, a tributary of the River Beas, 18 km away from the historic town of Mandi in Himachal Pradesh. Surrounded by forested hills far from the hustle and bustle of cities and highways, this scenic campus provides an excellent environment for the highest quality academic pursuits – research, teaching, and learning.

At IIT Mandi, the academic activities are carried out in 3 orthogonal but complementary structures. These are Faculty Schools, Student Degree Programmes, and Research Groups. Each of these is designed to serve a distinct purpose. The three interact in flexible ways to best achieve the academic goals of the Institute. The structure encourages inter-disciplinary learning and research that evolves in step with the march of technological innovation.

IIT Mandi invites applications for Faculty positions in all disciplines. Candidates who work in interdisciplinary areas are especially encouraged to apply. IIT Mandi is looking for applicants with a passion for teaching, should be exceptionally motivated, and should have an established record of high-quality research. Successful candidates will be expected to teach undergraduate and postgraduate courses, conduct independent research in their fields of expertise, and contribute to Institute services & building.

IIT Mandi has evolved curricula at the undergraduate and postgraduate levels aimed at training engineering leaders for industry, academia and the public sector. The undergraduate curriculum has a strong design component based on real-world problems, complemented by liberal doses of basic sciences, engineering sciences and the humanities. The curriculum offers flexibility for students to tailor their studies to their interests. The Faculty at IIT Mandi belong to broadly and loosely defined Schools. Each School provides a home base for faculty whose interests share some fundamental academic principles. At present, IIT Mandi has the following four Schools:

- **School of Basic Sciences (SBS)**

The members of the School are involved in research and teaching mainly in the areas of Natural Sciences and Mathematics; the major areas of expertise include:

Systems biology, Bioinformatics, and Next Generation Sequencing Applications, Metabolic Systems biology, Molecular Endocrinology and Metabolism, Immunology/Microbiology, Nano biotechnology, Ageing, Metabolic diseases, extracellular matrix, Proteomics, Proteostasis, Aging, Stress Response and C.elegans, and Genetics and Molecular Neuroscience.

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Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Spectroscopy, Nano particles, Nano materials, Quantum dots, Organic Synthesis, Medicinal Chemistry, Material chemistry, Nano electronics, Renewable energy.

Applied condensed matter physics. Low temperature physics, Ultrafast spectroscopy, Magnetic materials, Quantum optics and atomic and molecular physics, Soft matter.

Abstract differential equations, Computational fluid dynamics, Control theory, Mathematical modelling, Operator theory, Optimisation, Time series analysis, Wavelet analysis.

The SBS runs vibrant PhD programs in all the areas listed above. SBS also offers integrated PhD program in Physics. In addition, the School offers the following masters programs: Master of Technology in Biotechnology and Mater of Science programs in Chemistry, Applied Mathematics, and Physics.

- **School of Computing and Electrical Engineering (SCEE)**

The SCEE encompasses the disciplines of Computer Science and Electrical Engineering. The members of the School are involved in research and teaching mainly in the areas of communication engineering, distributed systems, electric drives, power systems, human computer interaction, big data analytics, cognitive science, controls, machine learning, nanoelectronics, power electronics, signal processing, IoT, biomedical systems, and VLSI design.

Currently, the School offers the B.Tech., M.Tech., M.S. by research and Ph.D. programs. The B.Tech. program is offered in Computer Science & Engineering and Electrical Engineering. The M.Tech. program is offered in Communication & Signal Processing (CSP), Power Electronics & Drives (PED), and VLSI.

- **School of Engineering (SE)**

The members of the School are involved in research and teaching mainly in the areas of advance materials, bio-mechanics, computational mechanics, composite design & manufacturing, earthquake & geotechnical engineering, environment & water resource management, energy engineering, geohazard, structural safety against natural & man-made hazards, structural health monitoring, smart structure & system & thermo-fluids.

Currently, the School offers B.Tech., M.Tech., M.S. by research and Ph.D. programs. B.Tech. program is offered in Civil Engineering and Mechanical Engineering. M.Tech. program is offered in Mechanical Engineering with Specializations in Energy Systems (MES), Energy Engineering with Specializations in Materials (EEM), and Structural Engineering.

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- **School of Humanities and Social Sciences (SHSS)**

The SHSS encompasses the disciplines of Humanities and Social Sciences. The members of the School are involved in teaching and research mainly in Literature, History, Finance, Management, Sociology, Energy, Environmental & Developmental Economics, German Studies, Human Computer Interaction and Cognitive Psychology. Currently, the School offers the Ph.D. programs and M.A in Development Studies.

IIT Mandi strongly encourages its faculty to collaborate and address significant interdisciplinary problems, especially with real-world applications. Collaboration could be within the Institute, with other institutions and industry. The Institute actively encourages research in the thrust areas below (however, not limited to):

- **AMRC:** Advanced Materials Research Centre (AMRC) is a multidisciplinary hub with a vision to promote excellence in advanced materials science and technology via cross disciplinary collaboration with internal and external users of the center. AMRC represents materials focused research in the areas of energy, environment, electronics, magnetism, organic displays, solar cells, drug delivery, nanotechnology etc. with participation of faculty members from physics, chemistry, biology and engineering disciplines. The Centre houses over 30 crores worth of instruments to support various research and development activities.
- **BioX Centre:** The broad vision of this Centre is to perform cutting edge research in the focus areas of Systems and Synthetic Biology with applications in Health care, Agriculture, and Environment. The Centre envisions to push the frontiers of technology development and engineering toward advancements in disease prevention & affordable health care, agricultural practices with respect to the Himalayan region & Himalayan Biodiversity, and exploration for biotechnological applications by bridging the gap between life sciences, physical sciences, and engineering.
- **C4DFED:** The Centre for Design & Fabrication of Electronic Devices (C4DFED) is a unique institute facility for multidisciplinary research of electronic device design and fabrication. The Centre has Class 100, Class 1000 & Class 10000 laboratories where high end sophisticated electronic device fabrication and characterization tools are housed. This Centre is capable of handling research projects like integrated circuits (IC's) design and fabrication for Nanoelectronics, Nano-Micro (NEMS & MEMS) systems and also development of Extreme Ultraviolet Lithography (EUVL) resists materials for the Next Generation Semiconductor industry down to 10 nm technology node.

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Also, with its location in the Himalayas, IIT Mandi provides unique opportunities for research on socially-relevant technologies for the Himalayan region.

Posts under Consideration:

ASSISTANT PROFESSOR Grade I & Grade II

Applicants for Assistant Professor will be considered for either Grade-I or Grade-II or both depending on the eligibility and suitability.

Essential Qualifications:

Ph.D. in a relevant area with first class or equivalent at the preceding degree in appropriate branch/discipline with consistently good academic record throughout.

Definition of "First Class" for the purpose of faculty selection:

IIT Mandi takes first class for faculty selection to mean 60% of the range of grade-points or marks. However, for those institutes which award first class, the minimum of 60% or the percentage of marks or grades at which the institute awards first class is taken as the criterion for first class. Nevertheless, the criterion for first class shall not be lower than 58% in any case.

Experience:

Assistant Professor Grade-I (earlier Assistant Professor): At least 3 years relevant industrial/research/teaching experience excluding however, the experience gained while pursuing Ph.D.

Assistant Professor Grade-II (earlier Assistant Professor on Contract): Candidates not eligible for Assistant Professor Grade I may be considered for tenure track for the regular post of Assistant Professor Grade-I. They may move to Assistant Professor Grade-I after fulfilling the eligibility requirements of Grade I and based on their performance evaluation.

Age: Should preferably be below 35 years of age.

Associate Professor: A minimum of 6 years teaching/research/professional experience of which at least three years should be at the level of Assistant Professor in an academic institution or Senior Scientific Officer/ Senior Design Engineer or equivalent position in a research organization or industry as on the date of application. The candidate should have

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demonstrated adequate experience of independent research in terms of guidance of M. Tech. and Ph.D students, strong record of publications in journals of high impact factor, patents, laboratory/course development and/or other recognized relevant professional activities. Candidates who do not fulfill such minimum experience requirements may be offered appointment at the Assistant Professor Grade-I or Assistant Professor Grade-II level, depending upon the academic credentials.

Professor: A minimum of 10 years' teaching / research / industrial experience of which at least 4 years should be at the level of Associate Professor in IITs, IISc Bangalore, IIMs, NITIE Mumbai and IISERs or at an equivalent level in any such other Indian or foreign Institution(s) of comparable standards. The candidate should have demonstrated adequate experience of independent research in terms of guidance of PhD students, strong research record, including publications in highly reputed peer reviewed journals, patents, laboratory / course development, sponsored research projects and/or other recognized relevant professional activities.

Higher qualifications and experience may be used in each area based on need. In view of the inter-disciplinary nature of IIT Mandi, although posts may be advertised against one School, the selected candidate may be offered the same post in another School if the Selection Committee finds this more suitable.

Scales of Pay:

Post	per 7 th CPC	Starting Basic Pay as per 7 th CPC*
Professor	Level 14A, Cell 1	Rs.1,59,100/-
Associate Professor	Level 13A2, Cell 1	Rs.1,39,600/-
Assistant Professor Grade-I	Level 12, Cell 1	Rs. 1,01,500/-
Assistant Professor Grade-II	Level 10, Cell 14	Rs. 84,700/-
	Level 11, Cell -10	Rs. 89,900/-
	Level 11, Cell 11	Rs. 92,600/-

***Note:**

- The posts carry allowances such as D.A., H.R.A. and transport allowance as per rules of the Institute which at present correspond to those admissible to Central Government employees stationed at Mandi.
- Depending upon the qualifications and experience, higher starting salary may be

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offered in deserving cases.

Additional Information:

- Permanent faculty positions are open to Indian Nationals. Appointment of persons of Indian Origin (PIO), overseas citizens of India (OCI) and foreign nationals for fixed periods on contract basis is permissible.
- Clearance from the Ministries of External Affairs and Home Affairs is necessary for foreign nationals.

Rolling Recruitment Process: Applications are accepted throughout the year. Candidates may apply at any time. Based on the needs of the Institute in a particular area, from time to time shortlisting and interviews will be conducted among the available applicants in that area.

Application Form and Additional Information on Current Openings: Please see the webpage <http://www.iitmandi.ac.in/administration/recruitment.html> for the list of openings that are currently being advertised and for additional information on current openings. The Institute may consider exceptional candidates even if areas of specialization lie outside those being advertised. **Candidates fulfilling the eligibility criteria must apply online at http://www.iitmandi.ac.in/oaf_standing**

Instructions for Completing the Online Application Form:

- Indicate the Thrust Area(s) and other research areas in which you have experience.
- Write a short statement of purpose, in the box provided, that explains your plans with reference to IIT Mandi's vision and goals. Please visit the IIT Mandi website <http://www.iitmandi.ac.in/> before you do this.
- Please enclose a detailed Academic Profile including the following information:
 - Details of publications/conference papers presented in chronological order, listing:
 - Names of authors, title of the paper, name of the journal/conference, volume/proceeding, pages (from-to) year, etc. (Group the above separately as Refereed National Journals, Refereed International Journals, Non-refereed Journals, presented at National Conferences, presented at International Conferences etc.)
 - Awards, Patents, Prizes etc. indicating:
 - Nature, name of prize/award, awarded by, awarded for and year of award
 - Name of the Patent, year and details about the patent, etc.

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- Research guidance (Ph.D. /M.S. /M.Tech. only those already awarded) listing:
 - Research degree, name of the scholar, title of thesis, year of award, co-guide (if any) etc.
- Role in and details of research/consultancy projects carried out, listing:
 - Title of the project, duration, sponsor, value, co-investigators, if any, etc.
- Other Activities like:
 - Textbooks and Monographs written, with details.
 - Continuing education programs/conferences organized (as on organizer or co-organizer) etc.
- Any other relevant but brief information on your academic standing.
- Enclose reprints of three best papers published.
- Please provide the names and contact information of the referees whom we can contact for the letter of reference. We will contact your referees and request them to send the letters of reference.
- If you are employed in a Government or Semi-Government Organizations, Public Undertakings, University and Educational Institutions, you must upload a No Objection Certificate from your present employer.

Support for Professional Advancement of Faculty Members:

- For candidates joining the Institute from abroad, a relocation allowance of Rs.2,00,000/- (Rupees Two Lakh Only) is admissible for self and family on production of tickets for travel by shortest route by Air India economy class subject to the condition that they serve the Institute for a minimum period of 3 years.
- For candidates joining the Institute within India, a relocation allowance of Rs.1,00,000/- (Rupees One Lakh Only) is admissible for self and family on production of tickets for travel by shortest route by Air India economy class/ road/ train subject to the condition that they serve the Institute for a minimum period of 3 years.
- A grant of Rs 1 lakh is provided for equipping office upon joining.
- A Startup Grant of up to Rs. 5 lakhs for carrying out a research project of 3 years duration, based on a research proposal is provided. A joint proposal from 2 Faculty members is eligible for up to Rs. 15 lakhs. This can be enhanced up to Rs. 30 lakhs for exceptional proposals or proposals involving three or more Faculty members.
- A Cumulative Professional Development Allowance (CPDA) of Rs. 3 lakhs for every block period of 3 years (Rupees One lakh per year) is made available to every member of the faculty to meet the expenses for participation in national and international conferences, payment of membership fee of professional bodies, contingent expenses, etc.
- Access to additional funds from the School or the Institute.
- No limit on the attendance at International Conferences without Institute financial

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assistance.

- Applying for research funding from the external sources including government and industry.
- The Institute encourages interaction of the faculty with industry, other research and professional institutions.
- Supervising PhD and MS research scholars, and MTech/BTech/M. Sc/MA projects.
- Professional visits can be undertaken during vacation period for carrying out research and for academic development.
- Sabbatical of upto one year may be granted after completion of six years of continuous service at the institute.
- Facilities for Research and Development activities are being established in all areas.
- Faculty can define the choice of facilities. Good library and computing facilities are available and are being constantly enhanced.
- **Accommodation:** On arrival, the appointed faculty may stay in the Institute Guest House for up to three months for free of Cost and allotment of single bedroom quarters on spot allotment basis subject to the availability.
- **Medical facility:** Faculty members are entitled to medical attendance and treatment including reimbursement of medical expenses incurred on self and dependants as provided for in the Statutes/Medical Attendance Rules of IIT Mandi.
- **Contributory Pension Scheme:** The “New Pension System” will be applicable.

Reservation: Without any compromise on qualification, experience and competence, reservation as per Government of India (GoI) rules will be applicable.

Miscellaneous:

- Candidates employed in Government and Semi-Government Organizations, Public Undertakings, University and Educational Institutions must apply through their present employers. If they anticipate unavoidable delay in their applications being forwarded through proper channel, they may submit advance copies of their applications directly to the Registrar, IIT Mandi.
- 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 basic of qualifications and experience higher than the minimum prescribed in the advertisement and other academic achievements.
- The invitation to candidates for interview merely indicates that it is felt that he/she with others may be suitable 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

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found prime-facie suitable for being considered by the selection committee. Thus, just fulfilling the 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 areas of specialization lie outside those stated herein, provided, these persons have an outstanding record.
- Candidates who are interviewed for one post but not found suitable may be offered a lower post if found suitable for that.
- Outstation candidates called for personal interview will be paid economy airfare by the shortest route (by Air India where available).
- Candidates abroad (and candidates in India for exceptional reasons) who are unable to attend in person will be interviewed by electronic means/videoconference, etc. In such cases, the Institute may decide to offer a contract position initially.
- 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.
- Hard copy submission is not required, until and unless specifically demanded.

All posts are tenable at Kamand, District Mandi, Himachal Pradesh, India. For any queries, please contact:

Associate Dean (Faculty)

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