# भारतीय प्रौद्योगिकी संस्थान रोपड़

## INDIAN INSTITUTE OF TECHNOLOGY ROPAR

रूपनगर,पंजाब-140001 / Rupnagar, Punjab-140001

**Advertisement No. IITRPR/FACRECT/03/2021**

# Special Recruitment drive for faculty positions in SC/ST/OBC/EWS categories

Indian Institute of Technology Ropar invites applications from qualified and motivated candidates for the post of Assistant Professor Grade-I in various Departments at the starting pay as per 7th CPC indicated as under:

| Department(s) | Position | Starting Pay as per 7th CPC | Tentative Minimum Emoluments at present |
|---|---|---|---|
| (i)   Biomedical Engg. <br> (ii)   Chemistry <br> (iii)  Chemical Engineering <br> (iv)  Civil Engineering <br> (v)   Computer Science & Engg. <br> (vi)  Electrical Engineering <br> (vii) Humanities & Social Sciences (including Management Studies) <br> (viii) Mathematics <br> (ix)  Mechanical Engineering <br> (x)   Metallurgical and Materials Engineering <br> (xi)  Physics | Assistant Professor (Grade-I) | ₹ 101500/- | ₹134528/- |

Assistant Professors (Grade-I) of IITs after having 3 years of experience (as Assistant Professor Grade-I) rendered in centrally funded technical institutions, AICTE approved institutions, and institutions under UGC, would be considered for upward movement to Pay level 13A1 – ₹ 131400/-. They will, however, continue to be designated as Assistant Professor (Grade-I).

**The applications shall be screened invoking the prescribed pre-requisites, and the shortlisted candidates shall be asked to appear for a Teaching / Research seminar at IIT Ropar. The recommended candidates shall be subsequently invited for an interview at IIT Ropar.**

**Reservations:** As per Government of India norms.

**Qualified persons include:**
   (a) Indian Nationals;
   (b) Foreign Nationals, who are Persons of Indian Origin (PIO) or Overseas Citizen of India (OCI), in whose case if selected, permission will be sought from the Government of India before he/she can join the institute;
   (c) Other Foreign Nationals in whose case if selected, an appointment will be made on a contract basis upto 5 years subject to the grant of permission from the Government of India before he/she can join the institute.

## EDUCATIONAL QUALIFICATION:

Ph.D. with first class or equivalent at the preceding degree in the appropriate branch with a very good academic record throughout. Further,

1. The applicants for the faculty positions in Metallurgical & Materials Engineering they must

have B.Tech./B.E. degree in Metallurgical Engineering / Metallurgical and Materials Engineering / Materials Engineering.

## EXPERIENCE REQUIREMENTS:

- **Assistant Professor (Grade-I):** A minimum of 3 years' (Post Ph.D) Teaching / Research / Industrial experience, excluding however, the experience gained while pursuing Ph.D.

## PREFERRED SPECIALIZATIONS:

| S.No. | Department | Research Areas |
|---|---|---|
| 1. | **Biomedical Engineering** | • Biomedical Imaging<br>• Biosensors, Biomedical instrumentation, Biomedical electronics, surgical robotics.<br>• Biomechanics<br>• Computational biology/systems biology/bioinformatics |
| 2. | **Chemistry** | • Main-Group Chemistry<br>• Bioinorganic Chemistry<br>• Experimental Physical Chemistry |
| 3. | **Chemical Engineering** | • Process Control Engineering<br>• Separation Process Engineering<br>• Bio-Chemical Reaction Engineering |
| 4. | **Civil Engineering** | • Structural Engineering<br>• Water Resources Engineering<br>• Transportation Engineering |
| 5. | **Computer Science & Engineering** | • Security<br>• Quantum computing<br>• Theoretical Computer Science<br>• Natural Language Processing<br>• Information Retrieval, Data Management Systems, Big Data<br>• Distributed Computing |
| 6. | **Electrical Engineering** | • Control Engineering<br>• Computer Technology<br>• High Voltage Engineering<br>• Electromagnetics<br>• Power Engineering<br>• Microelectronics & VLSI<br>• Communications<br>• Computer Vision and Machine Learning |
| 7. | **Humanities & Social Sciences** | • Operations Management<br>• Philosophy<br>• History of Technology<br>• Sociology<br>• Economics |
| 8. | **Mathematics** | • Theoretical Computer Science<br>• Data Science<br>• Probability and Statistics<br>• Modeling and Simulation |

| 9. | **Mechanical Engineering** | • Dynamics and Control,<br>• BioMechanical Engineering,<br>• Micro/Nano Engineered Systems.<br>• Intelligent Mechanical Systems and Manufacturing,<br>• Automotive Engineering,<br>• Energy Systems. |
|---|---|---|
| 10. | **Metallurgical &<br>Materials Engineering** | • Extractive/Process Metallurgy,<br>• Mechanical Behavior of Materials,<br>• Modeling and Simulation of Materials,<br>• Physical Metallurgy |
| 11. | **Physics** | • Condensed Matter Physics<br>• Light Matter Interactions<br>• High Energy/Particle Physics<br>• Astrophysics |

**Important Note:**

1. **Outstanding candidates from specializations other than those indicated above may also be considered.**

**Candidates possessing the requisite qualifications and experience may apply online on the following link: http://www.iitrpr.ac.in/jobs/faculty-positions**

# Know about IIT Ropar

Indian Institute of Technology Ropar, an Institute of national importance, is one of the eight IITs set up by the Government of India, Ministry of Human Resource Development (MHRD), in 2008. Located about 40 km (NW) from Chandigarh, IIT Ropar is operating from two campuses, transit campus, Nangal Road and permanent campus in Birla Farm, Ropar. The institute has already shifted the Departments of Computer Science & Engineering, Mechanical Engineering, Metallurgical & Materials Engineering, Electrical Engineering, Chemistry & Biomedical Engineering. The Administration building has shifted to Sir M. Visvesvaraya Block. The new campus of the institute spread over about 500 acres of land in the vicinity of River Sutlej and bestowed with 5 Star rating under GRIHA LD. IIT Ropar provides an exciting academic environment and is close to premier educational and research institutes such as PGIMER (Chandigarh), IISER (Mohali), IMTECH, CSIO, SCL, NIPER, Panjab University. Within its short span of existence, IIT Ropar has emerged as the leader in quality of research publications amongst the new eight IITs. It has been ranked 29th amongst the Engineering Institutes of India, in NIRF Ranking released by MHRD. Historically, Ropar city was a part of the Indus valley civilization and it provides a unique experience to the quality of life due to ever supporting nature of people of Punjab.

Who would not like to be a part of the rich culture of Punjab and contribute to its success story when liberal pay and perks are on offer!

**GENERAL INFORMATION:**

- **Applications by e-mail or hard copy will not be considered. Copies of certificates should be uploaded in PDF form along with the application.**
- Mere fulfillment of the above mentioned qualifications and experience does not entitle a candidate to be called for an interview.

- The Institute reserves the right to fill or not to fill positions in any of the above specialization(s) / Department(s).
- The candidate should fill separate applications if he/she is interested in applying to more than one department/ position.
- Recruitment would be based on the need in a given area within the department.
- For a regular faculty position, the candidate must present himself/herself personally at least once; either for research-cum-teaching seminar or for the interview.

## OTHER SUPPORTS FOR PROFESSIONAL ADVANCEMENT OF FACULTY:

- **Medical Coverage:** Members of the faculty and their dependent family members, may use facilities and services available in its on-campus dispensary. In addition to the Medical Care facilities provided in the institute dispensary, the patients whenever required are referred to other dispensaries and empanelled hospitals in and around Ropar / Chandigarh / Mohali. The expenses incurred on such treatment are reimbursed as per CGHS rates.
- **Leave Travel Concession:** As with other Government employees, members of the faculty are entitled to "Leave Travel Concession", wherein the institute underwrites the travel expense to one's Home Town every year for the first eight years of service as per Govt. of India LTC rules. This travel support is provided to all dependent family members as well.
- **Relocation Expenses**: The Institute will reimburse expenses incurred by a faculty to travel to join IIT Ropar by shortest route. Expenses incurred on travel by him / her and for the family for transportation of household goods shall be restricted to ₹ 1,00,000/- for the faculty joining from abroad and ₹ 50,000/- for the faculty joining from within India as the case may be. The mode of travel/transportation etc. is however subject to Government of India guidelines.
- Depending upon the qualification and experience, a higher start / salary can be offered in deserving cases.
- Reimbursement of telephone bills ranging from ₹1200/- to ₹2700/- p.m. as per institute rules.
- A Cumulative Professional Development Allowance (CPDA) of ₹3.00 lac (under revision) for every block period of 3 years (Rupees one lac per year) is made available to every year member of the faculty on reimbursable basis to meet the expenses for participation in national and international conferences, payment of membership fee of professional bodies and contingent expenses for any other professional activity.
- No limit on attending the International Conferences without Institute financial assistance.
- **Accommodation:** On arrival, the faculty may stay in Guest House upto a month on concessional rates and allotment of single bed room quarter on spot allotment basis subject to availability.
- The Institute encourages interaction of the faculty with industry, other research and professional institutions. Consultancy is encouraged at IIT Ropar and liberal consultancy policies are in practice.
- Professional visits can be undertaken during vacation period for carrying out scientific research work.
- Facilities for Research and Development activities exist in all the Departments. These are being continuously modernized with contemporary equipment and services. Good central facilities also exist for computing and research. The Institute has a well stocked library.
- **Start up grant: A suitable start up grant will be available for the faculty members for a sum of upto Rs.20.00 lac to set up the research and infrastructural facilities for a maximum period of 03 years.**
- Most of the day-to-day facilities are available on the Campus including banks, post office, crèche for children, well equipped dispensary, sports facilities, cafeteria etc.

## ADDITIONAL INFORMATION:

- Permanent faculty positions are open to Indian Nationals, Persons of Indian Origin (PIO) and Overseas Citizens of India (OCI). Appointment of foreign nationals for fixed period not exceeding 5 years on contract basis is permissible.

- Political and security clearance from Ministries of External Affairs and Home Affairs is necessary in every case for individuals with foreign passports.
- Candidates serving in Government or Quasi-Government or Government-aided Institutions including Universities, are requested to send their applications through proper channel or produce a No Objection Certificate from their employer. Online application should also be filled.
- The Institute reserves the right to restrict the number of candidates for interview to a reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement and other academic achievements.
- The Institute reserves the right to screen and call only such candidates that are found prima-facie suitable for being considered by the Selection Committee. Thus, merely fulfilling the prescribed conditions would not entitle any 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 area of specialization lie outside those stated herein, provided these persons have an outstanding record.
- 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.
- The candidates may get in touch with the Head of the relevant Department / Centre for additional information.
- Any corrigendum / addendum or modification, if any, would appear only on the institute website and not be published in any Newspaper.
- **The last date for the submission of online applications is 24.09.2021.**

कुलसचिव / **REGISTRAR**