



OFFICE OF INDUSTRIAL CONSULTANCY AND SPONSORED RESEARCH
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI – 600 036

Advertisement No.: ICSR/PR/Advt.52/2026 Dated: 13/04/2026

Applications are invited for the temporary post of **Post Doctoral Researcher** in **FedEx SMART Center, IIT Madras**.

Co-ordinator: Prof. Babji Srinivasan, Department of Applied Mechanics & Biomedical Engineering.

Duration: Initially for six months, later extendable based on the performance.

Number of Vacancies: 01

S. No	Post	Qualification and Experience	Pay
1	Post Doctoral Researcher	Ph.D. degree in Robotics, Mechanical Engineering, Electrical Engineering, Computer Science, Mechatronics, or a closely related discipline. (Candidates who have submitted their doctoral thesis or are awaiting defense are also encouraged to apply)	Rs. 65,000/- to Rs. 1,00,000/- Per month (Consolidated)

Job Description:

Technical Proficiency:

- Strong theoretical and practical foundation in robotics systems, including:
 - Robot kinematics, dynamics, and control (serial and mobile robots)
 - Motion planning, trajectory generation, and real-time control
 - Sensor fusion and perception using multi-modal sensors (IMU, LiDAR, cameras, force/torque sensors, encoders)
 - Real-time systems, embedded controllers, and hardware–software co-design for robotic platforms
- Demonstrated hands-on experience with robotic hardware, including:
 - Mobile robots, manipulators, or humanoid platforms
 - Integration and calibration of sensors, actuators, motors, and control electronics
 - Development and debugging of low-level and high-level robotic software stacks
- Exposure to Artificial Intelligence, Machine Learning, and Deep Learning with hands-on implementation, particularly for robotics applications, including:
 - Learning-based perception (vision, depth, SLAM, object detection, tracking)
 - Learning-based control, imitation learning, and reinforcement learning for robotic systems
 - Integration of AI/ML models into real-time robotic pipelines
 - Optimization, deployment, and benchmarking of AI models on robotic or edge platforms
- Experience with robotic middleware and frameworks, such as:

- ROS / ROS2, Gazebo, Isaac Sim, or equivalent simulation environments
- Hardware abstraction, message passing, and distributed robotic systems
- Proficiency in programming and system development using:
 - C/C++, Python, and scripting for robotics applications
 - Experience with simulation-to-real (Sim2Real) workflows is desirable
- Exposure to edge computing and embedded AI platforms (e.g., Jetson Nano/Xavier, Raspberry Pi, ARM-based SoCs) for deploying perception and control models on-board robots.
- Knowledge of real-time constraints, safety considerations, and optimization techniques for robust autonomous robotic systems.
- Ability to handle robotic datasets, including data collection, labeling, preprocessing, evaluation, and performance benchmarking.
- Commitment to rigorous and reproducible research, including structured experiments, open-source development practices, and systematic validation of robotic systems.
- Proven ability to design, implement, integrate, and evaluate complete robotic systems, combining hardware, control, perception, and AI/ML components.

Research Excellence

- Demonstrated publications in reputable journals and peer-reviewed conferences in robotics, AI, or related fields.
- Strong written and oral communication skills for disseminating research results.
- Ability to work collaboratively in interdisciplinary research teams involving robotics, AI, embedded systems, and control.
- In addition to independent research, the postdoctoral researcher will mentor students, contribute to project supervision, and support collaborative research proposals and publications.

Note: Candidates with strong fundamentals or a general understanding of these domains and good research aptitude are also encouraged to apply.

The last date for submission of online application is 27.04.2026.

General Instructions to the candidates

- 1) All the positions are on purely contract basis.
- 2) The completion of the period of contract will not confer any right for further extension, regularization, permanency at the Institute.
- 3) Candidates should apply online only in the website https://icsrstaff.iitm.ac.in/careers/current_openings.php - **(Please check the advertisement number Advt.52/2026 displayed and submit the application for the relevant position).**
- 4) Separate application has to be filled for each post.

- 5) The system will accept single application only with the registered login ID (email) for an advertisement, hence the candidate is requested to select the multiple positions (In case, the candidate wishes to apply for more than one position) before the submission of application.
- 6) The application cannot be edited, reverted once it is submitted.
- 7) Candidates should not attempt to apply twice for the same post. If multiple applications are received from a candidate for the same post, the candidature will be liable to be rejected.
- 8) Candidates should follow the prescribed procedure for submission of online application.
- 9) Candidates are advised to fill their correct and active e-mail addresses in the online application as all correspondence will be made by the Institute through e-mail only.
- 10) The candidates applying for any post should ensure that they fulfil all the eligibility conditions for the post. Their admission to any stage of the selection process will be purely provisional subject to confirmation that they satisfy the prescribed eligibility conditions. Mere issue of registration certificate / call letter to the candidate will not imply that the candidature has been found eligible.
- 11) After successful online submission of application, a printout of the application form must be obtained and submitted when called for test. It will be required at the time of document verification/test/interview. Hard copy of the application is NOT to be sent to the Institute.
- 12) Candidates must be citizens of India. Persons who have migrated from Pakistan with the intention of permanently settling in India or subjects of Nepal are also eligible, but in their case a certificate of eligibility from the Government of India will be necessary for appointment. Such candidates should apply to the Government of India in the Ministry of Home Affairs for necessary certificate and furnish satisfactory proof of having so applied.
- 13) The prescribed qualifications are minimum and unless specified, they are required for consideration for the post, even if higher qualification has been acquired and the mere fact that a candidate possesses the same will not entitle them for being called for interview.
- 14) Relevant experience gained after the minimum qualifying degree will only be taken into consideration. Minimum requirements of qualifications and/or experience can be relaxed in respect of exceptionally outstanding candidates.
- 15) The experience required is relaxable at the discretion of the Institute in the case of candidates belonging to the Scheduled Caste / Scheduled Tribe, if at any stage of selection, the competent authority is of the opinion that sufficient number of candidates from these communities possessing the requisite experience are not likely to be available to fill up the vacancy reserved for them.
- 16) The Institute reserves the right to restrict the number of candidates for written / skill test / interview to a reasonable limit on the basis of qualifications, level and relevance of experience higher than the minimum prescribed in the advertisement and other academic achievements. The Institute also reserves the right of rejecting any or all the applications without assigning any reasons, therefore.
- 17) Calling a candidate for test/interview merely indicates that it is felt that the candidate with others may be suitable for the post and conveys no assurance whatsoever that they will be recommended or selected or their conditions specified in the application will be accepted.

- 18) Candidates will be short-listed for Test/Interview on the basis of the information provided by them in their online applications. They must ensure that such information is true. If at any subsequent stage or at the time of Test/Interview any information given by them or any claim made by them in their online applications is found to be false, their candidature will be liable to be rejected.
- 19) The Institute shall verify the antecedents or documents submitted by a candidate at any time 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 clandestine antecedents/background and has suppressed the said information, then their services shall be liable to be terminated.
- 20) In case of any inadvertent mistake in the process of selection which may be detected at any stage even after the issue of appointment letter, the Institute reserves the right to modify/ withdraw/ cancel any communication made to the candidates.
- 21) Applicants who are working in **any one of the Project at IIT Madras**, must apply through proper channel otherwise they will be required to produce No-Objection Certificate at the time of document verification/Test/Interview. Candidates without NOC will not be permitted to appear for Test/Interview.
- 22) Candidates may send testimonials from persons intimately acquainted with their work and character. If the applicant is in employment, the candidate should submit testimonials from the most recent employer or immediate superior as a referee.
- 23) The Institute has a right to decide the mode of screening and testing the applicant for short listing and selection.
- 24) The Institute solely reserves the right not to fill any advertised position without assigning any reason
- 25) Only shortlisted applicants will be contacted.
- 26) No correspondence whatsoever will be entertained from candidates regarding conduct and result of test/interview and reasons for not being called for interview. Canvassing in any form will be a disqualification.
- 27) The crucial date for determining the eligibility criteria for all candidates in every respect shall be the prescribed closing date for submission of online application.
- 28) The Institute strives to have a workforce which reflects gender balance and women candidates are encouraged to apply.
- 29) Any corrigendum/clarifications on this advertisement, if necessary, shall be uploaded on website and no separate communication will be sent for this purpose.
- 30) If there is any issue to submit the application please send E-mail to : icsrrecruitment6@icsrpis.iitm.ac.in / icsrrecruitment@icsrpis.iitm.ac.in **Contact: 044- 2257 8843** on all working days from **9.00 AM to 05.30 PM (Monday to Friday – except National Holidays)**. (Please note, only technical issues will be accepted – No interim correspondence with reference to the selection process will be considered).
- 31) **Instructions to apply online:** Eligible applicants would require to register and apply online through https://icsrstaff.iitm.ac.in/careers/current_openings.php and submit the application.

Sd/-

Head –HR
Office of IC&SR
IIT Madras

