



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

Advertisement No.: ICSR/PR/Advt.107/2025 Dated: 25/06/2025

Applications are invited for the temporary post of **Data Scientist**, Department of **Civil Engineering**, IIT Madras.

Co-ordinator: Prof. Gitakrishnan Ramadurai, Department of Civil Engineering, IIT Madras.

Duration: Initially for one year, later extendable based on the performance.

Number of Vacancies: 01

S. No	Post	Qualification and Experience	Pay
1	Data Scientist	Master's degree in a quantitative field such as mathematics, computer science, physics, economics, engineering, statistics (including operations research or quantitative social sciences, etc.) , or an international equivalent or equivalent professional experience. Minimum of 3+ years of relevant experience required.	Rs 27,500/- to Rs 1,00,000/- Per month (Competitive salary commensurate with qualifications and experience)

Job Summary:

This role holder leads and advocates various data science teams on best practices around the development and implementation of advance analytic systems and predictive and prescriptive models.

The role holder works with a team of data scientists, data analysts, data engineers, machine learning engineers, data domain owners, application developers, and architects in the creation and delivery of insights from large and disparate data to empower confidence in business decisions.

This position leads the evaluation and adoption of emerging technologies that support the use of statistical modelling, machine learning, distributed computing, and run time performance tuning with the goal of deploying optimal processes and introducing solutions that meet the three key objectives of Mobility and/or logistics, namely safety, on time and optimal costs.

Responsibilities.

- Leads and oversees the data analysts, data quality assurance analysts, machine learning engineers, and big data specialists in the implementation of models and systems that provide optimal results as well as scale and evolve the solutions to meet future business needs.
- Acts as subject matter expert on mobility and/or logistics, data, and advanced analytics capabilities to scope

problems, data and model requirements, and proven predictive and prescriptive techniques.

- Maintains broad understanding of implementation, integration, and inter-connectivity issues with emerging technologies to define strategies that support the creation and development of digital twin and its alignment to meet specific business use cases as applicable.
- Develops and prototypes algorithms to ensure analytic results satisfy problem statements and business needs.
- Interprets and analyses large scale datasets to discover insights to support the build of analytic systems and predictive models as well as experiment with new and emerging models and techniques.
- Identifies and evaluates emerging/cutting edge open source, data science/machine learning libraries, data platforms, and vendor solutions to support the conception, planning, and prioritization of data projects across the enterprise.
- Provides thought leadership, technical guidance, and counsel for data science project teams to evaluate strategic alternatives, determine impact, recommend courses of action, and design and implement solutions.
- Identifies & Champions best practices for adoption of Cloud-AI technologies, opensource software, machine learning libraries/packages, and data science platforms to derive useful information and insights that empower business decisions.
- Manages analytics projects/teams and serves as a point of contact for teams when multiple units are assigned to the same project to ensure team actions remain in synergy while communicating with stakeholders to keep the project aligned with goals.

Requirements:

- Ability to engage key business and executive-level stakeholders to translate business problems to high level analytics solution approach.
- Multiple years of experience working with large-scale, complex datasets to create machine learning, predictive, forecasting, and/or optimization models.
- Demonstrable track record of dealing well with ambiguity, prioritizing needs, and delivering results in a dynamic environment
- Expertise in data management pipelines involving data extraction, analysis and transformation using either data querying languages, or scripting languages and/or statistical/mathematical software.
- Hands-on experience in launching moderate to large scale advanced analytics projects in production at scale; adapts available Cloud-AI technologies and machine learning frameworks with or without the use of enterprise data science platforms.
- Proven ability to convey rigorous technical concepts and considerations to non-experts, and strong analytical skills, attention to detail.
- Direct experience in developing analytical solutions that empowers business decisions and product creation using various sets of techniques (e.g. **Supervised, Unsupervised, Deep Learning, NLP, Computer Vision and Edge Computing**)
- Excellent verbal and written communication skills with the ability to communicate data through a story

framework and convey data-driven results to technical and non-technical audiences, and effectively advocate technical solutions to research scientists, engineering teams as well as business audiences.

The last date for submission of online application is 10.07.2025.

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://icandsr.iitm.ac.in/careers/current_openings.php - **(Please check the advertisement number Advt.107/2025 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 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 print out 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 : recruitment@iitm.ac.in / icsrrecruitment@iitm.ac.in **Contact: 044- 2257 9796** 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://icandsr.iitm.ac.in/careers/current_openings.php and submit the application.

Sd/-

Head –HR
Office of IC&SR
IIT Madras