

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



Advertisement No.: ICSR/PR/Advt.110/2021 Dated: 13/01/2021

Applications are invited for the following temporary post under the project titled “**Centre for Programmable Photonic Circuits and Systems (CPPICS)**”, in the Electrical Engineering, IIT Madras with the following mission objectives.

Chief Investigator: Bijoy Krishna Das, Professor in Department of Electrical Engineering, IIT Madras (<http://www.ee.iitm.ac.in/bkdas/>)

Duration: The recruitment will be initially for a period of one year but extendable up to five years based on the performance.

About the Project: The major objective of this centre is to design and experimental demonstration of a multipurpose Field Programmable Photonic Gate Array (FPPGA) Core using Silicon Photonics Technology for various system level applications by interfacing fiber pigtailed lasers, modulators, control electronics, fiber attachment assemblies and driving software. As a proof of concept, the developed FPPGA core will be programmed for reconfigurable RF filters (C, X, Ku, K, Ka bands) and heralded single photon and/or entangled photon pairs for quantum key distribution (QKD). The proposed FPPGA core will be fiber pigtailed and packaged for field trials. Moreover, the hybrid/co-integration of FPPGA core with lasers, modulators, photodetector monitors and control electronics will be explored as a follow-up objective to optimize the size, weight and power consumption, i.e, to minimize the SWaP figure of merit. The Centre of Excellence CPPICS @ IIT Madras has been jointly sponsored by MeitY, Govt. of India and Si2 Microsystems, Bengaluru (www.si2microsystems.com). Total project value is Rs. 2990.80 Lakhs (~ 4.1 Million USD) and for a duration of five years starting from 1st January, 2021.

S. No.	Post	No. of posts	Pay range (per month)	Qualifications	Desirable
1.	Chief Technology Officer (CTO)	01	Rs.150,000/- (Consolidated)	Ph.D in Engineering / Science / M. Tech / M.E / MS	Ph.D in Engineering / Science with three years' experience (or) Master's with six years' experience in Microelectronics and/or Photonics Industry / Research lab Note: Selected candidate will be responsible for following tasks: (i) Streamlining utilizations of resources and expertise generated within the scope of the proposed centre for its self-sustenance; (ii) Techno-commercial road mapping; (iii) Business development related activities. A dedicated team of project staff and senior research scholars will be trained to execute outside service requests on payment basis.

					The CTO will be the over-all in-charge for the creation and execution of self-sustenance plan.
2.	Senior Project Officer	03	Rs. 35,000/- (Annual Increment Rs. 2000/-)	M. Tech / M.E./MS with 60% or 6.5 CGPA and above / Master's Degree in Science with 60% or 6.5 CGPA and above	M.Tech / M.E/MS in relevant disciplines with specialization in Microelectronics & VLSI Technology / Applied Physics / Photonics (or) Master's Degree in Science with two years' experience in relevant areas Note: Selected candidates with Master's degree will be encouraged to register for the PhD programme at IIT Madras
3.	Project Associate	05	Rs.21,500/- (Annual Increment Rs. 1250/-)	B.Tech / B.E / A.M.I.E / Master's Degree in Science with 60% or 6.5 CGPA and above	B.Tech / B.E / AMIE / M.Sc. in relevant disciplines. GATE qualification is desirable. Note: Selected candidates can apply for the MS programme at the Department of EE, IIT Madras after six months on the project, with the supervisor's recommendation.
4.	Junior Research Fellow	1	Rs.31,000/- (Consolidated)	B. Tech / B.E. with 60% or 6.5 CGPA and above / Master's Degree in Science / Management with 60% or 6.5 CGPA and above	B.Tech / BE in Engineering (or) Master's Degree in Science/management with two years' experience in Microelectronics and/or Photonics Industry / Research Lab. Note: Selected candidate will be posted in MeitY, New Delhi, who will be coordinating MeitY officials with day-to-day CPPICS research activities and managing all the relevant paper works.

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/recruitment/> - **(Please check the advertisement number 110/2021 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, he/she 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, his/her 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 his/her 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 him/her 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 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.
- 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 his 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, he/she 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) The last date for submission of online application is 29/01/2021

- 31) If there is any issue to submit the application please send E-mail to: recruitment@imail.iitm.ac.in / icsrrecruitment@iitm.ac.in **Contact: 044 - 22578357** 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).
- 32) **Instructions to apply online:** - Eligible applicants would require to register and apply online through <https://icandsr.iitm.ac.in/recruitment/> and submit the application.

Sd/-

Senior Manager –HR
Centre for IC&SR
IIT Madras