

# केन्द्रीय विनिर्माणकारी प्रौद्योगिकी संस्थान (सीएमटीआई) CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE (CMTI)

तुमकुर रोड़, बेंगलूरु/Tumkur Road, Bengaluru-560022

विज्ञापन संख्या/Advertisement No. 05/2021

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**प्रवेश साक्षात्कार के माध्यम से संविदा आधार पर भर्ती**

**RECRUITMENT ON CONTRACT BASIS THROUGH WALK-IN INTERVIEW**

सीएमटीआई एक प्रमुख राष्ट्रीय संस्थान है, जो एप्लाइड विनिर्माण विज्ञान के विभिन्न पहलुओं के अनुसंधान के लिए समर्पित है। सीएमटीआई विभिन्न प्रायोजित परियोजनाओं को क्रियान्वित कर रही है और इन परियोजनाओं में कार्य करने के लिए निम्न लिखित उम्मीदवारों की आवश्यकता है।

The CMTI is a premier Institute of National repute, devoted to Research in various aspects of Applied Manufacturing Science. CMTI is executing various sponsored projects & is looking for the following candidates to work in the projects.

क्र.सं Sl No.	पद कोड Post Code	पद का नाम Name of the Post	वेतन/Stipend (प्रतिमाह/per Month)	अवधि Duration	पदों की सं. No. of Posts	साक्षात्कार की तारीख Date of Interview	अनिवार्य अर्हता एवं अनुभव Essential Qualifications & Experience	वांछनीय अर्हता एवं अनुभव Desirable Qualification & Experience	कार्य विनिर्देश Job Specification
01	PA(I) - 001	Project Assistant-I	Rs. 18,000/-	2 Years	2	07.07.2021	First Class ITI in Refrigeration and Air Conditioning.	Work Experience in Air Conditioning Systems.	Operation & Trouble shooting of HVAC systems & Chiller Plant Room.
02.	PA(I) – 002	Project Assistant-I	Rs. 18,000/-	2 Years	1	07.07.2021	First Class ITI in Mechanical (Fitter).	Work Experience in Air Conditioning Systems.	Operation & Trouble shooting of Machineries connected with HVAC systems.

03.	PA(I) – 003	Project Assistant-I	Rs. 18,000/-	2 Years	1	07.07.2021	First Class ITI in Information Technology & Electronics System Maintenance (IT&ESM) / Electronic / Mechanic / Electrician.		<ul style="list-style-type: none"> <li>• Setup of the public address system as per the requirements.</li> <li>• Maintenance of the public address system / equipment.</li> <li>• Setup of projectors, display screens.</li> <li>• Maintenance of projectors, display screens.</li> <li>• Co-ordinating with service providers when the equipment are hired.</li> <li>• Provide assistance to the IT support staff.</li> <li>• Assisting for internal Meetings, Conferences, Video Conference &amp; Trainings.</li> <li>• Biometric &amp; CCTV devices maintenance.</li> </ul>
04	PA(I) – 004	Project Assistant-I	Rs. 18,000/-	1 Year	1	07.07.2021	First Class ITI Fitter with Min. 1 Year experience in Machine Assembly.	1 Year experience in Machine Assembly. Hydraulic Tubing & Welding.	<ul style="list-style-type: none"> <li>• Carrying out Machine Assembly i.e. hand drilling, filing etc</li> <li>• Overall Integration of sub-systems</li> <li>• Installation of Machines at customer places i.e. all over India</li> </ul>
05	PA(I) - 005	Project Assistant-I	Rs. 18,000/-	2 Years	1	07.07.2021	First Class ITI Electrical / Electronics	Fresher or with 2 Years experience.	Experience in electrical wiring, assembly and testing, calibration of instruments.

06	PA(II) – 001	Project Assistant-II	Rs. 20,000/-	2 Years	1	13.07.2021	First Class ITI in Mechanical (Fitter) with 2 years experience <b>OR</b> First Class diploma in Mechanical Engineering.	Work Experience in Air Conditioning Systems.	Operation & Trouble shooting of Machineries connected with HVAC systems & Chiller Plant Room.
07	PA(II) – 002	Project Assistant-II	Rs. 20,000/-	1 Year	1	13.07.2021	First Class Diploma in Mechanical Engineering.	Diploma in Mech. Engineering with minimum 1 year Experience Knowledge on Machine Assembly and Design Software i.e. Solidworks	<ul style="list-style-type: none"> <li>• Carrying out Machine Assembly i.e. hand drilling, filing etc</li> <li>• Overall Integration of sub-systems</li> <li>• Installation of Machines at customer places i.e. all over India.</li> </ul>
08	PA(II) – 003	Project Assistant-II	Rs. 20,000/-	1 Year	1	13.07.2021	First Class Diploma in Electrical Engineering .	With 3-4 years of experience in Simatic Step 7 & Simatic WinCC software tools, Installation & Commissioning experience of SPM's is desirable	Electrical Control Panel wiring, Motor control cabinet wiring, Testing of PLC Logics and SCADA, Installation & Commissioning of equipments developed at site.
09	PA(II) – 004	Project Assistant-II	Rs. 20,000/-	2 Years	1	13.07.2021	First Class Diploma in Electrical / Electronics Engineering.	Fresher or with 2 years experience.	Experience in Design & Development of Electronics/Electrical control system, electrical wiring, assembly and testing, calibration of instruments.

10	PA(II) - 005	Project Assistant-II	Rs. 20,000/-	1 Year	3	13.07.2021	First class Diploma in Computer Science or BCA from a Recognised University	Candidate with Post qualification experience in web development, GUI development, C#, DOTNET, SQL Skills are desirable / preferred.	Development and maintenance of Websites
11	DEO – 001	Data Entry Operator cum Assistant	Rs. 20,000/-	2 Years	2	27.07.2021	First Class Bachelors Degree in Commerce.	Tally with Computer Applications.	Procurement & Stores related activities.
12	PF(I) – 001	Project Fellow -I	Rs. 25,000/-	1 Year	1	16.07.2021	First Class B.E./B.Tech in Mechanical Engineering with sound knowledge in given job specifications	Sound knowledge of CAD and 3D modelling.	Design of 3D CAD models in solidworks or Any CAD Software, Sheetmetal enclosure Design, Fixture Design, DFM, Sound knowledge in GD&T, Manufacturing of Components & Testing.
13	PF(I) - 002	Project Fellow – I	Rs. 25,000/-	1 Year	3	16.07.2021	First Class B.E/B.tech (CSE, IT, ECE, EE or equivalent) or MCA from a recognised University	Candidate with post qualification experience in web development, GUI development, C#, DOTNET, SQL Skills are desirable / preferred.	Development and maintenance of websites.

14	PF(I) – 003	Project Fellow-I	Rs. 25,000/-	1 Year	1	16.07.2021	<b><u>Project Fellow-I:</u></b> First Class B.E. / B.Tech in CSE / ECE / EIE / IE / IT / Mechatronics fresh with sound knowledge in job specifications.	<ul style="list-style-type: none"> <li>• Sound knowledge in Python / MATLAB /programming, Google Colab/Jupyter based AI &amp; ML implementation, Knowledge in AI/ML algorithms &amp; Image processing.</li> <li>• Working experience in Raspberry Pi or Phytech SBC or Jetson Boards</li> <li>• Familiar with Programming in Linux based OSs</li> <li>• Experience in embedded programming, interfacing electronic boards, Arduino Microcontrollers/Raspbarr Pi, Sensors and Actuators etc.,</li> </ul>
		<b>OR</b>	Project Fellow-II				Rs. 30,000/-	

15	PF(I) - 004	Project Fellow-I	Rs. 25,000/-	1 Year	1	16.07.2021	<b>Project Fellow-I:</b> First Class B.E./ B.TECH in ECE / EEE / EIE / IE with sound knowledge of topics in Job specifications <b>OR</b> First Class M.E./ M.Tech in Embedded Systems, Instrumentation, Control Systems, Mechatronics.	<ul style="list-style-type: none"> <li>• Experience in LabVIEW programming and real-time control</li> <li>• Signal processing and Analysis &amp; Real-time data acquisition.</li> </ul>	<ul style="list-style-type: none"> <li>• Experience in factory/ industrial automation.</li> <li>• Embedded Firmware development in C, C++.</li> <li>• Experience in LabVIEW Programming and Real-Time Control.</li> </ul>
		Project Fellow-II	Rs. 30,000/-				<b>Project Fellow-II:</b> First Class B.E./ B.Tech in above subjects with 2 years of experience <b>OR</b> First Class M.E./M.Tech in the above subjects with 1 year of experience.		
		Project Fellow-II	Rs. 32,000/-				<b>Project Fellow-II:</b> First Class M.E./ M.Tech in the above subjects with 2 year of experience.		
16	PF(II) – 001	Project Fellow-II	Rs. 30,000/-	1 Year	1	20.07.2021	First Class B.E / B.Tech in Electrical Engineering with 2-3 years of experience in Electrical Motor Design and Development.	M.E / M.Tech in Electrical Engineering with 2 year experience in Electrical Motor Design and Development.	Design & Development of Electric Motor, EM Analysis, PLC Logics and SCADA Testing.

17	PF(II) - 002	Project Fellow-II	Rs. 30,000/-	1 Year	1	20.07.2021	First Class B.E. / B.Tech in Mechanical Engineering with 2 years of experience in working on Design of Mechanical Elements.	<ul style="list-style-type: none"> <li>• Preference shall be given for candidate with experience in design of bearings</li> <li>• Candidates with experience in Machine Tool Sector are also desirable.</li> </ul>	<ul style="list-style-type: none"> <li>• He/she must have experience in working with Solidworks for 3D modeling, manufacturing drawing preparation and knowledge of GD&amp;T for machine element design work</li> </ul>
18	PF(II) - 003	Project Fellow-II	Rs. 30,000/-	1 Year	1	20.07.2021	First Class B.E. / B.Tech in computer science with 2 years of experience <b>OR</b> First Class M.E./ M.Tech in Computer Science with 1 year experience	Experience in Front-end UI development projects and Back-end integration	<p>Design, Development and Deployment of Application supporting User experience design team.</p> <ul style="list-style-type: none"> <li>• Prior experience of working with UX teams/ UI development tool</li> <li>• Required programming skills in implementing UI designs</li> <li>• Exposure in end-to-end UI development, software architecture, design, implementation and testing</li> </ul> <p>Responsibilities/Deliverables:</p> <ul style="list-style-type: none"> <li>• Responsible for getting the UI designs from user experience design team and work on the front end and back end of the application.</li> <li>• Deliverable to define the software architecture, design and implement</li> <li>• Deliverable quality control and provide all assets for implementation of the application.</li> </ul>

19	PF(II) - 004	Project Fellow-II	Rs. 30,000/-	1 Year	1	20.07.2021	<p>First Class B.E./ B.Tech /M.Sc/M.C.A in Computer Science with minimum 2 years experience</p> <p><b>OR</b></p> <p>First Class M.E. / M.Tech in Computer Science with minimum 1 year experience</p>	<ul style="list-style-type: none"> <li>•Software development experience in SQL, object oriented programming</li> <li>•Experience working with SQL databases.</li> <li>• Apollo GraphQL, NoSQL knowledge and experience .Open Source Contributions</li> </ul> <p>Mandatory-Good programming skills in one of Node.js/ Java/Python</p>	<p>The candidate is expected to work on IoT project under the guidance of a research team of a global manufacturing industrial company. The assignment includes design, development, testing and deployment of a IIoT data layer. Work in close sync with the team. Plan weekly activities, daily standup, and bi-weekly demos. High Quality and well tested code. Final deliverable:well-documented quality code and a seperate documentation explaining the orchestration and deployment process.</p>
20	PF(II) - 005	Project Fellow-II	Rs. 32,000/-	1 Year	1	20.07.2021	<p>First Class M.E / M.Tech in Electronics / Electrical with 2 years of experience.</p>	<p>M.Tech in Embedded Electronics/Machine Learning. Candidate should be able to handle various data management (Simulation +Test data), data acquisition from various sensors, and hands on experience in Programming by using Python/ Rand exposure to edge devices / PLC / Condition monitoring devices Machine tool testing and knowledge about edge devices will be added advantage with experience in modelica, Simulink and MatLab, Good at mathematics, problem solving skills.</p>	<p>1) Handle 1D models using Matlab Simulink or Modelica and collect data.</p> <p>2) Develop RUL algorithms for machine tool components and implement them in python programming language.</p> <p>3) Acquire data from machine tool testing and use them in estimating the remaining useful life of the machine tool.</p> <p>Responsibilities/Deliverables:</p> <p>1) Arrive at proper ML modeling to calibrate data.</p> <p>2) Implement RUL and reduced order models in edge device and interface with sensors to collect the test results.</p> <p>3) DT based availability.</p>



## **अनुदेश / INSTRUCTIONS:**

1. सभी प्रयोजनों के लिए विच्छेदक तिथि 30.06.2021 है, जिसमें आयु भी शामिल है।  
Cut off date for all purposes including age is 30.06.2021.
2. केवल भारतीय नागरिक ही आवेदन के लिए योग्य है।  
Only Indian Nationals are eligible to apply.
3. उम्मीदवारों से अनुरोध किया जाता है कि वे वैध ई-मेल आईडी आवेदन में अनिवार्य रूप से उपलब्ध कराएं।  
The candidates are requested to possess the valid email id which is to be compulsorily provided in the application.
4. केवल आवश्यक योग्यता के आधार पर उम्मीदवारों को साक्षात्कार में बुलाए जाने की बाध्यता नहीं होगी।  
Mere possession of required qualification will not entitle the candidates to be called for interview.
5. अनुभव का अर्थ उक्त श्रेणी में मांगी गई, न्यूनतम शैक्षणिक अर्हता प्राप्त करने के बाद संबंधित क्षेत्र में अनुभव से है। दावा किया गया अनुभव वैध दस्तावेज द्वारा समर्थित होना चाहिए।  
Experience shall mean the experience in the relevant field after obtaining the minimum educational qualification prescribed for in the said category. Experience claimed should be supported by valid documentation.
6. अत्यधिक योग्य / असाधारण मामलों में स्थिति को शिथिल किया जा सकता है। संस्थान साक्षात्कार / लिखित परीक्षा के लिए शॉर्टलिस्टिंग मापदंड को अपने तरीके से अपनाने का अधिकार सुरक्षित रखता है और वे सभी उम्मीदवार जो न्यूनतम आवश्यकता को पूरा करते हैं, उनको शॉर्टलिस्ट करने के लिए बाध्य नहीं है।  
The conditions may be relaxed in highly deserving /exceptional cases. The Institute reserve the right to adopt its own method of short-listing criteria for interview/written examination and is not obliged to shortlist all the candidate who fulfil the minimum requirement.

7. आयु छूट भारत सरकार के आदेश / मानदंड के अनुसार स्वीकार्य है।  
Age relaxation is admissible as per Government of India order/Norms.

क्र.सं./SI No.	पदनाम/Name of the Post	अधिकतम आयु/Max. Age
1	परियोजना सहायक/Project Assistant – I	25
2	परियोजना सहायक/Project Assistant – II	30
3	डाटा एंट्री ऑपरेटर सह सहायक Data Entry Operator cum Assistant	30
4	परियोजना फेलो/Project Fellow – I	30
5	परियोजना फेलो/Project Fellow - II	32

8. अनुसूचित जाति/अनुसूचित जनजाति/अन्य पिछड़ा वर्ग/ईडब्ल्यूएस से संबंधित उम्मीदवार आवेदन पत्र के साथ वैध जाति प्रमाण पत्र की छायाप्रति प्रस्तुत करें। (ओबीसी प्रमाणपत्र केन्द्र सरकार के प्रारूप में होना चाहिए।)  
Candidate belonging to SC/ST/OBC/EWS should enclose photocopy of valid caste certificate along with the application (OBC Certificate should be in Central Government Format).
9. सीएमटीआई बिना कारण बताए विज्ञापित पद को भरने या न भरने का अधिकार सुरक्षित रखती है। चयनित उम्मीदवारों को सीएमटीआई में पद पर नियमित होने का कोई अधिकार नहीं होगा।  
CMTI reserves the right to fill-up or not to fill up the post advertised without assigning any reasons thereof. Selected candidates will not have any right to absorb in the regular post in CMTI.
10. पदों की संख्या सांकेतिक है और यह संस्थान की आवश्यकता के आधार पर कम-ज्यादा हो सकती हैं।  
No. of posts are indicative and it may vary depending upon the Institutes requirement.
11. प्रथम श्रेणी का अर्थ अर्हक परीक्षा के सभी सत्रों में कुल 60% अंक से है।  
1<sup>st</sup> class means 60% marks aggregates of all semesters in the qualifying examination.
12. साक्षात्कार / लिखित परीक्षा में भाग लेने के लिए टीए / डीए का भुगतान नहीं किया जाएगा, यदि कोई हो।  
No TA/DA will be paid for attending the interview/written examination, if any

13. विचार के लिए सीजीपीए ग्रेडिंग को प्रतिशत में परिवर्तित किया जाएगा।  
CGPA grading will be converted in to the percentage for consideration.
14. छुट्टी: प्रत्येक माह समाप्त होने के बाद एक छुट्टी के पात्र होंगे। छुट्टी के नकदीकरण की अनुमति नहीं है।  
Leave: One day for each completed month will be eligible. No leave encashment is permitted.
15. पद के लिए आवेदन करते समय योग्यता और अनुभव पर विचार किया जाएगा।  
Qualification and Experience possessed at the time of applying for the post will be considered.
16. उपरोक्त भर्ती के संबंध में कोई भी संशोधन केवल सीएमटीआई की वेबसाइट पर अधिसूचित किया जाएगा।  
Any amendments with regard to the above recruitment will be notified in CMTI Website only.
17. किसी भी रूप में संयाचना करना निरर्हता मानी जाएगी।  
Canvassing in any form would be a disqualification.
18. सभी पद अस्थायी और कार्यकाल पर आधारित हैं और नियमितीकरण पर कोई बाध्यता नहीं है।  
All posts are temporary and tenure based and no obligation on regularization.
19. प्रत्येक पद के लिए उल्लेखित समेकित वेतन है, कोई अन्य हितलाभ स्वीकार्य नहीं है।  
Stipend mentioned against each post is consolidated, not admissible for any other benefits.
20. एक पद के लिए एक आवेदन का प्रयोग करें।  
One application for one post.
21. उम्मीदवारों को सत्यापन के लिए साक्षात्कार के समय आवेदन में दिए गए सभी मूल दस्तावेज का विवरण और प्रत्येक की फोटोकॉपी प्रमाण के रूप प्रस्तुत करने होंगे। प्रमाण पत्र में पाई जाने वाली कोई भी विसंगति आवेदनों को अयोग्यता की ओर आकर्षित करेगी। साक्षात्कार/लिखित परीक्षा के समय मूल प्रमाण-पत्र प्रस्तुत न करने पर भी अभ्यर्थी को अयोग्य घोषित कर दिया जाएगा। उम्मीदवारों को कौशल से गुजरना पड़ सकता है।  
Candidates must produce all original documents as proof of details furnished in the application and photocopy of each, at the time of interview for verification. Any discrepancies found in the certificate will attract the disqualification of applications. Non production of the original certificates at the time of interview/ written test will also make the candidate disqualified. Candidates may need to undergo the skill.
22. इस विज्ञापन से संबंधित किसी भी स्पष्टीकरण के लिए कृपया **080 - 22188284/22188313** पर संपर्क करें।  
For any clarification on this advertisement please contact **080 – 22188284 / 22188313**.