

# CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE (CMTI)

Tumkur Road, Bengaluru-560022

Advertisement No. 04/2020

## **RECRUITMENT ON CONTRACT BASIS**

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.

Sl No.	Post Code	Name of the Post	Stipend (per Month)	Duration	No. of Posts	Essential Qualifications & Experience	Desirable Qualification & Experience	Job Specification
1	PA(I) - 001	Project Assistant-I	Rs. 18,000/-	1 Year	3	First Class ITI in Fitter	<ul style="list-style-type: none"><li>• Completed Apprentice from Govt Organizations / Reputed MNCs</li><li>• 1 year experience</li></ul>	<ul style="list-style-type: none"><li>• Primarily for Mechanical assembly works and for other Sponsored projects</li><li>• Primarily for Sample preparation works for Advanced material characterisation and for other Sponsored projects</li></ul>
2	PA(I) - 002	Project Assistant-I	Rs. 18,000/-	1 Year	1	First Class ITI in Electrician	<ul style="list-style-type: none"><li>• Completed Apprentice from Govt Organizations / Reputed MNCs</li><li>• 1 year experience</li></ul>	<ul style="list-style-type: none"><li>• SMDDC Electrical works</li><li>• Smart Foundry Project electrical assembly and testing works.</li><li>• For upcoming projected sponsored projects</li></ul>
3	PA(II) - 001	Project Assistant - II	Rs.20,000/-	1 Year	1	First Class Diploma in CS / IT / ECE or BCA	<ul style="list-style-type: none"><li>• Upto 2 years experience in Web page development</li></ul>	<ul style="list-style-type: none"><li>• Design &amp; Development of new web page</li><li>• Software support to the R&amp;D Groups</li><li>• Maintenance &amp; Updating of existing webpage</li></ul>
4	PA(II) - 002	Project Assistant - II	Rs.20,000/-	2 Years	2	First Class Diploma in Electrical Engineering	<ul style="list-style-type: none"><li>• Design &amp; Development of Electronics / Electrical control system, electrical wiring, assembly and testing, calibration of instruments</li><li>• 2 years Experience</li></ul>	<ul style="list-style-type: none"><li>• Electrical wiring, assembly, testing of the Electrical Circuit, testing of the Sensors and Actuators, Calibration of Instruments</li></ul>

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5	PA(II) - 003	Project Assistant - II	Rs.20,000/-	2 Years	2	First Class Diploma in Mechanical Engineering	Experience in Manufacturing Industry	Manufacturing Support, CNC Machine programming and Operation, Inspection support, Precision Machine Operation & OVD follow up
6	PA(II) - 004	Project Assistant - II	Rs.20,000/-	2 Years	1	First class Diploma in Metallurgy	<ul style="list-style-type: none"> <li>• B.Sc (PCM)</li> <li>• With one year lab experience</li> </ul>	Support for executing Material Testing, NDT, Heat Treatment, Quality Control
7	PA(II) - 005	Project Assistant - II	Rs. 20,000/-	2 Years	1	First Class B.Sc in Chemistry	-	Electroplating and other Chemistry related work.
8	DEO - 001	Data Entry Operator cum Assistant	Rs.20,000/-	2 Years	3	First Class in any Bachelors Degree in any discipline (Other than engineering)	B.Com with 2 years experience in Computer Operations & Tally Software is preferable	<ul style="list-style-type: none"> <li>• Day to Day Administrative activities,</li> <li>• Customer Handling,</li> <li>• Billing in Tally Software</li> <li>• Coordination works with other Departments</li> <li>• Day to Day Accounting Activities</li> <li>• Data entry, Lab services support and Office works, etc</li> </ul>
9	PF(I) - 001	Project Fellow - I	*Rs.25000/- Rs. 28000/-	2 Years	1	First Class B.E. / B.Tech / M.E. / M.Tech in Mechanical Engineering	Exposure to Manufacturing Industry	Manufacturing Support, CAD / CAM. OVD follow up and Inspection
10	PF(I) - 002	Project Fellow - I	Rs.25000/-	1 Year	1	First Class in B.E. / B.Tech in Mechanical	1 year relevant Industrial experience	<ul style="list-style-type: none"> <li>• Product developmental works and Project Co-ordination activities like follow-up between Design, Manufacturing, Metrology, Assembly and Testing.</li> <li>• Assembly and testing activities in precision machine developments.</li> <li>• Technical Documentation and Preparation of assembly and testing reports.</li> </ul>
11	PF(I) - 003	Project Fellow - I	*Rs.25000/- Rs. 28000/-	2 Years	2	First class B.E. / B.Tech / M.E. / M.Tech in Computer Science / Information Science / Information Technology	Experience in C++ programming, GUI development, Computer Graphics with Strong Mat & Algorithm development	Development of Software for 3D measurement, 3D Scanners and Algorithm development

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12	PF(I) - 004	Project Fellow - I	*Rs.25000/- Rs. 28000/-	2 Years	1	First Class B.E. / B.Tech / M.E. / M.Tech in Electronics Engineering	Experience of 2 to 3 years in the field of Designing MEMS devices	Design of MEMS sensors using Conventorware, MEMS + Software's
13	PF(I) - 005	Project Fellow - I	Rs.25000/-	2 Years	1	First class B.E. / B.Tech in Mechanical / Mechatronics / Electrical / Electronics Engineering	Preference will be given to those who have 2-3 years of experience in utility and gas management related to clean rooms	For utility and gas management Activities
14	PF(II) - 001	Project Fellow - II	Rs.30,000/-	1 Year	2	First Class B.E. / B.Tech in CS / IT / ECE or First Class MCA with 2 years experience <b>Or</b> M.E. / M.Tech in CS / IT / ECE with 1 year experience	Upto 2 years experience in Web page development	<ul style="list-style-type: none"> <li>• Design &amp; Development of new web page</li> <li>• Software support to the R&amp;D Groups</li> <li>• Maintenance &amp; Updating of existing webpage</li> </ul>
15	PF(II) - 002	Project Fellow-II	Rs.30,000/-	4 Years	1	First Class B.E./B.Tech. in Mechanical  <b>Experience:</b> 2 years	Experience in M.Sc CAD/CAE/CAM software's	<ul style="list-style-type: none"> <li>• Working knowledge of 3D modelling</li> <li>• Working knowledge of FEA</li> <li>• Working knowledge of Manufacturing automation using CAM</li> </ul>
16	PF(II)- 003	<b>**</b> Project Fellow - II  <b>OR</b> Project Fellow - III	Rs.30,000/-  Rs.35,000/-	2 Years	2	First class M.B.A with B.E. / B.Tech (other than Automobile and Civil Engineering) with full time MBA course in Marketing.  <b>Experience:</b> 2 Years for Project Fellow – III	Experience in Business Development, Technology Marketing, Market Study etc.	<ul style="list-style-type: none"> <li>• Technology Marketing</li> <li>• Customer Interactions</li> <li>• Market Study</li> <li>• Preparations of Technology Monogram</li> <li>• Follow up of Tenders</li> <li>• Technology Outcome Assessment</li> </ul>

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17	PF(II)- 004	Project Fellow – II	Rs.30,000/-	2 Years	2	First Class B.E. / B.Tech in Electronics & Communication / Computer Science  <b>Experience:</b> 2 years	Labview programming, various NI modules (PXI, Crio) and Labview RT programming, various data communication protocol (TCPIP, VISA, etc)	Software development for testing of aerospace components in Labview. Data logging between applications. Testing of various Aerospace Components and generation of test report
18	PF(III) - 001	Project Fellow - III	Rs.35,000/-	2 Years	3	First Class B.E. / B.Tech in Electronics & Communication / Computer Science  <b>Experience:</b> Minimum 5 years	Labview programming, various NI modules (PXI, Crio) and Labview RT programming, various data communication protocol (TCPIP, VISA, etc)	Software development for testing of aerospace components in Labview. Data logging between applications. Testing of various Aerospace Components and generation of test report.
19	PF(III) - 002	Project Fellow - III	Rs. 35,000/-	2 Years	1	1. First Class B.E./B.Tech. in Electrical Engineering <b>Experience:</b> Minimum 5 years  2. Diploma in Electrical Engineering <b>Experience:</b> Minimum 10 years	Design & Development of Electronics / Electrical control system, supervise electrical wiring, assembly and testing, calibration of instruments	Design & Development of Electrical Control system, Selection/Design of Electrical Cabinets, Supervision of assembly, Testing of 5 Test Rigs
20	PF(III) - 003	Project Fellow-III	Rs. 35,000/-	1 Year	1	First Class in B.E./B.Tech. In Computer Science  <b>Experience:</b> Minimum 5 years	<ul style="list-style-type: none"> <li>• First Class in MTech. (Computer Science / Mechatronics)</li> <li>• Relevant Industrial experience</li> </ul>	<ul style="list-style-type: none"> <li>• To develop the CMTI server system for IIoT technology</li> <li>• To acquire the data over cloud and data management</li> <li>• To develop cloud based data analytics</li> <li>• To develop data visualization, representation and graphical user interface</li> <li>• Edge controller scripting and taking data to the cloud/server</li> <li>• SQL, PHP, Python, JAVA script development for IIOT solutions</li> </ul>

**DELETED**

SI No.	Post Code	Name of the Post	Stipend (per Month)	Duration	No. of Posts	Essential Qualifications & Experience	Desirable Qualification & Experience	Job Specification
21	PF (III) - 004	**Project Fellow – II  OR  Project Fellow - III <b>[In lieu of Senior Research Fellow (SRF) ]</b>	Rs.30,000/- / Rs.32,000/-  Rs. 35,000/-	1 Year	1	First Class B.E. / B.Tech / M.E in Electrical & Electronics Engineering with 2 years of working experience. <b>Experience:</b> 5 Years Experience for Project Fellow – III	Development of Electrical / Electronics / Control Engineering projects / Development of Solenoid Coils & Controls	Design, Development, testing and proving the Flow Control Valve for Ventilator
22	PF(IV) - 001	Project fellow –IV  <b>DELETED</b>	Rs.45,000/-	1 Year	1	First Class in M.Sc. (Physics) or B.E. (Metallurgy) <b>Experience:</b> Minimum 10 Years	Relevant Industrial experience	• Experience in FESEM-FIB and sample preparations of FIB/SEM

- For Project Fellow – I, Rs. 25000/- for B.E. / B.Tech and Rs. 28,000/- for M.E. / M.Tech.
- For Project Fellow – II, Rs. 30000/- for B.E. / B.Tech and Rs. 32,000/- for M.E. / M.Tech.
- For SI No. 16 & 21, successful candidates will be engaged as Project Fellow- II or Project Fellow - III as per their eligibility.
- Candidates found eligible for upper levels shall be placed accordingly with the approval of Competent Authority.

### **AMENDMENT**

SI No.	Post Code	Name of the Post	Stipend (per Month)	Duration	No. of Posts	Essential Qualifications & Experience	Desirable Qualification & Experience	Job Specification
23	PF(II) - 005  <b>In lieu of SI No. 20</b>	Project Fellow - II	Rs. 30,000/-	1 Year	1	First Class in B.E./B.Tech. In Computer Science <b>Experience:</b> Minimum 2 years	• First Class in MTech. (Computer Science / Mechatronics) • Relevant Industrial experience	• To develop the CMTI server system for IIoT technology • To acquire the data over cloud and data management • To develop cloud based data analytics • To develop data visualization, representation and graphical user interface • Edge controller scripting and taking data to the cloud/server • SQL, PHP, Python, JAVA script development for IIOT solutions
24	PF(II) - 006  <b>In lieu of SI No. 22</b>	Project fellow - II	Rs.30,000/-	1 Year	1	First Class in M.Sc. (Physics) or B.E. (Metallurgy) <b>Experience:</b> Minimum 02 Years	Relevant Industrial experience	• Experience in FESEM-FIB and sample preparations of FIB/SEM

**INSTRUCTIONS:**

1. Cut off date for all purposes including age is 31.05.2020.
2. Only Indian Nationals are eligible to apply.
3. The candidates are requested to possess the valid email id which is to be compulsorily provided in the application.
4. Mere possession of required qualification will not entitle the candidates to be called for interview.
5. 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. 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. Age relaxation is admissible as per Government of India order/Norms. Candidate belonging to SC/ST/OBC should submit photocopy of valid caste certificate at the time of verification.
8. 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.
9. No. of posts are indicative and it may vary depending upon the Institutes requirement.
10. 1<sup>st</sup> class means 60% marks aggregates of all semesters in the qualifying examination.
11. No TA/DA will be paid for attending the interview/written examination, if any
12. CGPA grading will be converted in to the percentage for consideration.
13. Leave: One day for each completed month will be eligible. No leave encashment is permitted.

14. Candidates may apply for multiple posts (maximum for three posts). In such case, only one application form to be submitted mentioning the post codes on the application form.
15. Qualification and Experience possessed at the time of applying for the post will be considered.
16. Any amendments with regard to the above recruitment will be notified in CMTI Website only.
17. Canvassing in any form would be a disqualification.
18. All posts are temporary and tenure based and no obligation on regularization.
19. Stipend mentioned against each post is consolidated, not admissible for any other benefits.
20. For shortlisted candidates the interview may be held through personal / video conference (VC) / any other modes.
21. Interested candidates are requested to mail the Application in the prescribed Format duly filled in (available in the website) both **in PDF as well as Word format along with your CV/ Resume** to [est.cmti@nic.in](mailto:est.cmti@nic.in) **on or before 12.06.2020**. The font to be used to fill the application is **Arial** and size **12**.
22. Candidates need not submit the copy of Marks card / Certificates through mail. As and when required will communicate the same. Any discrepancies found in the certificate will attract the disqualification. However, non production of the original certificates at the time of interview/ reporting will also make the candidate disqualified.