



CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY
(Scientific Society under M/o Electronics and Information Technology, GoI) **Athani**
P.O., M.G. Kavu, Thrissur, Kerala, Pin – 680 581
(Tel No. 0487-2201156 – 59 (4 lines))

Notification No.CMET/TH/ADM/01/2019

WALK-IN-INTERVIEW

C-MET, Thrissur Lab, invites young and talented persons with research aptitude to work as **Project Staff** for two of the scientific projects; one entitled “Development of Aerogel Supercapacitor based Power Module for application in VVPAT of EVM”, sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. Of India and other entitled “Development of Transparent conducting oxides and metal nitrides as low loss plasmonic materials in near IR and visible frequencies” , sponsored by BRNS, Department of Atomic Energy, Govt. of India.

A. Project Sponsored by MeitY

Duration of the Project : Upto 24th October, 2021.

Sl. No.	Name of the Post	Nature of the Post	No. of Post	Tenure of the Post	Qualification	Age Limit	Emoluments
1.	Project Staff-A	Temporary on Project based	Two	Initially for one year and may be extended upto the completion of the Project; ie. 24 th October, 2021	Essential : First class/60% marks in BTech in Electrical Engineering/ Electrical and Electronics Engineering/ Electronics and Instrumentation Engineering	Not exceeding 28 years as on 31 st December, 2018	Rs.25000/- per month (Consolidated) <i>plus</i> HRA
2.	Project Staff-B	-Do-	One	-do-	Essential: First class/60% marks in M.Sc in Chemistry/Material Science	-do-	-do-
3.	Project Staff-C	-Do-	Three	-Do-	Essential: First class/60% marks in Diploma in Electrical/Electronics Engineering	-Do-	Rs.15000/- per month (Consolidated) <i>plus</i> HRA -

Nature of Work:

i) For project Staff –A (BE/B Tech)

- Performing Expts. related to fabrication of aerogel supercapacitor-based power modules (SCPM) & optimization of process involves therein

- Designing & Fab. supercapacitor cell, designing & Fab. of PCBs with required electronic circuits for making SCPM, Fab. of SC Module as per the specs targeted & testing of its electrical/electrochemical performances using SCTS, SCTM, EWS & other testing instruments.
- Performing routine Expts. in making SC cell/ modules as per specs targeted and looking into the engineering aspects of making aerogel electrodes with improved electrical performances
- Some part of the works will be carried out at ECIL (Hyderabad) and for which selected staffs have to make frequent travel/visit to ECIL & other Institutes in India as well and selected candidate shall be ready for working at ECIL/other institute.
- Other, as per the requirements of project and also as recommended by the PRSG.

ii) For Project Staff-B (M. Sc.)

- Prep. of carbon aerogel (CAG) through chemical route followed and pyrolytic conversion to get the product.
- Fab. of aerogel electrodes (AG-E) using the CAG and dev. of process of making AG-E having improved electrical performances in SC /SCPM
- Materials characterization and evaluation of physical properties including SC cells & SCPM by using XRD, Raman, FTIR, BET, SCTM, EWS, & other sophisticated analytical instruments.
- Some part of the works will be carried out at ECIL (Hyderabad) and for which selected staffs have to make frequent travel/visit to ECIL & other Institutes in India as well and selected candidate shall be ready for working at ECIL/other institutes.
- Other, as per the requirements of project and also as recommended by the PRSG.

iii) For Project Staff-C (Diploma)

- Regular Expts. In making aerogel, process monitoring including operation of gel reactor, SCD plant, furnaces, & other machines involve in carbon aerogel prep.
- Regular Expt. In Fab. of Supercapacitor electrodes using carbon aerogel thus made including operation of machines involves in making SC electrodes, testing of mechanical & electrical properties of SC electrodes thus made
- Fab. of SC cells & modules using the SC electrodes thus made and machines involves therein including operation of machines related to SC Fab., performing routine Expts. In making SC cells of targeted specs and testing/evaluation of SC performance.
- Assisting PI & other project team for the works in designing/Fab. of circuits, making PCB for interfacing SC in SCPM for use in VVPAT of EVM
- Other, as per the requirements of project and also as recommended by the Project Review & Steering Group (PRSG).
- Some part of the works will be carried out at ECIL (Hyderabad) and for which selected staffs have to make frequent travel/visit to ECIL & other Institutes in India as well. Interested candidate shall agree and ready for extensive travel/working at ECIL/other institute (expenses for such travel, stay during work at ECIL/other institute will be borne from the project as per the C-MET rules)

B. Project Sponsored by MeitY

Duration of the Project : Upto 27th August, 2020.

Sl. No.	Name of the Post	Nature of the Post	No. of Post	Tenure of the Post	Qualification	Age Limit	Emoluments
1.	Project Staff-D	Temporary on Project based	One	Initially for one year and may be extended upto the completion of the Project; ie. 27 th August, 2020	Essential: First class/60% marks in M.Sc in Physics/Material Science	Not exceeding 28 years as on 31 st December, 2018	Rs.25000/- per month (Consolidated) <i>plus</i> HRA

Nature of Work:

- Preparation of various thin films by solution based coating techniques (eg.spin coating) and sputtering technique.
- Structural, electrical and optical characterization of thin films. Analysis of optical absorption and reflectance spectra by theoretical models.
- Development of prototype thin film device structures and optimization of properties.

General Terms and Conditions:

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1. All the Posts are purely temporary and the appointment will be initially for a period of One year and may be extended upto the completion of the Project.
2. On appointment, it will not confer any right on the appointee for claim for regular appointment.
3. Selected candidate will be required to produce a medical certificate of fitness in the prescribed form, from a Government Doctor not below the rank of Civil Surgeon and character certificates from two Gazetted Officers working in Central/State Government at the time of joining the post.
4. Selected candidate will be required to report for duty as mentioned in the offer (normally within 10 days from the date of offer) and no extension will be given.
5. Selected candidate will be required to work till the completion of the project and resigning from the post during the currency of the project period shall not normally be entertained.

Those who are eligible for **Project Staff-B and Project Staff-D** may attend interview on **18.01.2019**, for those eligible **Project Staff-A** may attend interview on **19.01.2019**, and those eligible for **Project Staff- C** may attend interview on **20.01.2019** at “**Centre for Materials for Electronics Technology (C-MET), Shornur Road, Athani-P.O., Thrissur-680 581**”. The registration will be between **8.00 AM to 10.30 AM**. on respective dates. **The applicants shall bring originals along with copies of documents in support of Qualification, Age etc. The applicants shall also bring one recent Passport size**

Photograph at the time of registration. Only those candidates who are screened in by a Committee will be considered for interview subject to verification of original documents. If more candidates are turned up, a written examination of multiple choice objective type in the relevant subject will be conducted for preliminary Screening. In such cases, those who are sufficiently ranked higher will only be considered for interview.

Sd/-
Administrative Officer