



ACCREDITED BY NAAC



**CENTRE FOR NANO SCIENCE AND TECHNOLOGY
INSTITUTE OF SCIENCE AND TECHNOLOGY
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)

Ref : [EEQ/2020/000158](#)

Date: 14-12-2020

NOTIFICATION

Applications are invited for the following positions in the DST-SERB ([EEQ/2020/000158](#)), Government of India sponsored project.

Title of the Project	High sensitive Acetone biomarker for the point of care diagnosis of Diabetic Mellitus based MXenes/Metal oxide nanocomposites.	
Funding agency	DST-SERB (EEQ/2020/000158)	
Name of PI	Venkateswararao Kalagadda, email Id: kalagadda2003@jntuh.ac.in	
Institute	Institute of Science and Technology, JNTU Hyderabad	
Position	Fellowship	Qualification
Junior Research Fellowship (JRF) No. of positions -1	Rs. 31,000/- +HRA	M.Sc/M.E./M.Tech in Physics/Nanotechnology/Materials Science with valid Gate. <u>Desirable:</u> Advanced synthesis techniques of nanomaterials, hands on experience in chemical sensors and electrochemical sensors (Cyclic Voltammeter, Gas sensing) is preferable

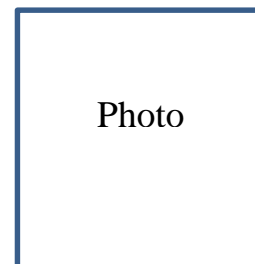
About the project

Diabetics is one of the major worldwide obstacle which leads to many health crisis. Commonly, human exhaled breath contains various types of VOCs (volatile organic compounds), among the various VOCs acetone is the key factor that reveals the progress or the therapeutic response of the diabetes mellitus. Therefore numerous efforts have develop low target VOC concentration, rapid non-invasive and portable high performance gas sensor for the acetone detection at very low ppm levels in the exhaled human breath. Recently nanostructure composites based gas sensors and electrochemical sensors have fascinated growing attention in real-time determination of VOC analysers in exhaled human breath analysis due to its unique properties and the possibility of the portable size. The present study will be helpful in understanding how nanocomposites help to detect the low level of acetone for the non-invasively glucose detection using amperometric technique through cyclic voltammetry and Chemi-resistive Gas sensing technique.

How to Apply

Candidates interested are requested to send their applications in the prescribed format (attached with this advertisement) to the Principal Investigator through email to: kalagadda2003@jntuh.ac.in on or before 25-12-2020. Applicants meeting the eligibility criteria will only be selected and notified for interview via email. Interview would be through physical presence on 28-12-2020 at 11.30AM coordinated by the Principal Investigator, Centre for Nanoscience and Technology, IST, JNTUH.

Proforma of application for the post In the DST sponsored project
APPLICATION FORM
For the position of JRF ,DST sponsored project [Project No. [EEQ/2020/000158](#)]



1. Full Name (Capital)	
2. Fathers Name	
3. Mothers Name	
4. Date of Birth	
5. Marital Status	
6. Address for communication	
7. Permanent address	
8. Nationality	
9. Contact no.	
10. Mail Id	

11. Education Background (From Matriculation Onwards)

12. Details of previous Experience

13. Research Publication (if any)

14. Awards, patents, prizes etc (if any)

15. Any other Relevant Information

DECLARATION

I hereby declare that I have carefully read the instructions and particulars supplied by me and that the entries made in this application form are correct to the best of my knowledge and belief. If selected, I promise to abide by the rules and discipline of the Institute. I note that the decision of the Institute is final in regard to selection. The Institute shall have the right to expel me from the Institute at any time after my selection, provided it is found that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

Place:

Date:

Signature of Applicant

TERMS AND CONDITIONS

1. Only eligible candidates are required to apply.
2. The contract is purely temporary and initially only for a period of one year but extendable if work is found satisfactory on year to year basis till the completion of the project.
3. JRF candidate admitted in the scheme is expected to join the Ph. D program at JNTU Hyderabad
4. Candidates have to fully devote their time for the project work
5. Maximum age limit is 30 years as on 28-12-2020 and upper age limit relaxed up to 5 years for reserved category candidates (SC/ST/Persons with Disability (PwD) and women applicants) if applicable.
6. Selection will be made purely as per the DST and University guidelines subject to approval by DST.
7. **No TA/DA will be paid for either attending the interview or while joining the project.**
8. **Candidates with prior experience in relevant area will be given preference.**
9. Complete applications in the prescribed format should reach the following address on or before **27/12/ 2020 by e-mail.**
10. **Dr. K Venkateswara Rao**
M.Sc., M.Tech., Ph.D(University Of Hyderabad),. PDF(Johns Hopkins, USA).
Professor of nanotechnology , Coordinator- IQAC, Spoc of NPTEL
Center for Nano Science and Technology
Institute of Science & Technology(IST)
JNTUH, kukatpally, Hyderabad-85
Official Email: kalagadda2003@jntuh.ac.in
Alternate Email: kalagadda2003@jntuh.ac.in
11. If any false information is provided by the candidates and is found guilty, necessary action will be taken and the candidate has to refund all the payments made to him/her.

Note : Interview for selected candidates is on 30/12/2020 at 11.00 AM in PI Chamber



Principal Investigator

Date: 14-12-2020

(Dr. K Venkateswara Rao)