



University of Hyderabad  
School of Physics  
Hyderabad 500 046, INDIA

UOH/SOP/2021/BVR/DST/RA

Date: 14th August, 2021

School of Physics (SoP), University of Hyderabad (UOH) is inviting applications from eligible candidates for **Research Associate-I, purely on temporary basis**, in the DST-SERB project (PI: Prof. B.V.R. Tata, SoP) and Co-PI: Prof. S. Venugopal Rao, ACRHEM) on **"Fabrication of Photonic Crystals with Plasmonic Nanoparticles for Improved Optical Sensing and Detection of Hazardous Materials"**

Designation	Qualifications & Specialization
<b>Research Associate (1 post)</b>	<p><b>Essential:</b></p> <p>a) Ph.D. in Physics (Synthesis and self-assembly of colloidal nanoparticles, Photonic Band Structure calculations, Raman spectroscopy and related topics only)</p> <p>b) Knowledge in Photonic crystals (PCs), Surface Enhanced Raman Spectroscopy (SERS) and synthesis of colloidal Nanoparticles</p> <p>c) Experience in numerical calculations using software such as MIT-Photonic Bands, COMSOL Multiphysics, analysis of SERS data, fabrication of Photonic crystals through self-assembly route</p> <p><b>Desirable:</b></p> <p>a) Minimum 3 first author publications/ patents</p> <p>b) Experience/Knowledge in handling laser-based instruments (e.g. Raman Spectrometer, Confocal microscope, Light scattering spectrometer)</p> <p><b>Job Requirement:</b> Numerical simulations of photonic band structure, fabrication of photonic crystals, and investigation of fabricated structures for sensing applications using the SERS technique.</p>

**Stipend/Remuneration\*:**

Research Associate I	Rs. 47000/- + HRA
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**Tenure of the post:** Position is *initially for a period of one year* and further extension up to end of the project will be given based on performance, mutual consent and a review by external experts. Interested and qualified candidates with good academic records are requested to send their applications along with detailed Curriculum Vitae by e-mail (with subject Application for the post for RA at SOP, UOH, Aug. 2021), by e-mail to: [bvrtata@uohyd.ac.in](mailto:bvrtata@uohyd.ac.in) OR [bvrtata@gmail.com](mailto:bvrtata@gmail.com) on or before **31/08/2021**. The short-listed candidates will be informed to attend interview in online mode on **06/09/2021**.

NB: (1) **The appointment will not carry any weightage or claim or whatsoever for a permanent absorption** in the university and without any liability on the part of the university. (2) **No TA / DA will be paid** for attending the interview.

Prof. B. V. R. Tata & Prof. Soma Venugopal Rao