

# Advertisement for a Junior Research Fellow in Indo-Norway project to design Magneto electric and Magneto caloric materials

Applications are invited from interested candidates for the post of Junior Research Fellow (JRF) at the Simulation Center for Atomic and Nanoscale MATerials (SCANMAT), Central University of Tamil Nadu (CUTN) for a Research Council of Norway (RCN) and University of Oslo (UiO) funded Research Project "Novel Approaches to Magneto structural phase transition in Metallic system (NAMM)".

**About the Project:** We are looking for a JRF to join the SCANMAT center, CUTN to be employed in the NAMM project funded by RCN and UiO. This project is aimed at developing advanced magnetic materials that possess electrocaloric, magnetocaloric or multi-caloric properties using state-of-the-art computational methods based on DFT, molecular dynamics and machine learning approaches. Magneto caloric (MC) materials are a new class of materials useful for efficient refrigeration by replacing large GHG emitting, energy inefficient, and century old compression–evaporation cycle refrigeration technology. The SCANMAT research group has world-class HPC facility with state-of-the-art softwares and expertise to model advanced functional materials useful for various energy technologies supervised by world-renowned scientist Prof. P. Ravindran (Among top 2% in International Ranking of Scientists (Applied Physics 2020-)). The person employed in the project will closely work with experimental team at UiO, Norway in this project. The research activities of SCANMAT can be found at <https://folk.universitetetioslo.no/ravi/cutn/people.html>. The qualified candidate may be considered for pursuing their PhD at CUTN. The duration of the project is 3 years from the joining date.

**Minimum qualifications:** M.Sc (Physics , Applied Physics, or relevant area with a minimum of 55% marks [50% for OBC (Non-creamy layer)/SC/ST/PWD candidates]. Candidates who have qualified any national level examinations [such as JRF (UGC/CSIR/JEST), NET (UGC/CSIR), GATE, INSPIRE or equivalent].

**Fellowship:** Junior Research Fellow: Rs. 16,000/- Per month (without HRA) for 36 months or they can avail their own fellowship (INSPIRE/UGC(JRF)) .

**Number of posts:** JRF : 1

**Age:** Maximum 28 years and relaxable upto five years for SC/ST/OBC/WOMEN and Physically handicapped candidates.

**Online link to apply:** <https://forms.gle/cSrM7tB3v89aNcVR7>

**Last Date for Apply:** 20 August 2024

**Application Process:** Candidates fulfilling the above qualifications are encouraged to apply using the above link and also can send their complete CV to [scanmat@cutn.ac.in](mailto:scanmat@cutn.ac.in). Based on the academic merit, skills, research experience the candidates will be shortlisted for attending the online interview. The date of interview will be informed, through email, only to the shortlisted candidates.

**For any further information, please contact:**

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