



JRF Position under DST-SERB Project Mechanistic of CO Oxidation on Metal Free Catalyst and Property Package

Applications are invited from highly motivated and eligible candidates for the position of Junior Research Fellow (JRF) in a SERB funded research project (File No.: EMR/2016/004689).

Objectives of the project: The first-principles based codes are reliable to find the various physical and chemical properties of materials. The output and microscopic understanding proposed using these codes has been well accepted by the scientific community. So in this project we will use density functional theory based codes to understand the mechanistic of CO oxidation.

Eligibility: First class M.Sc. in Physics or M.Tech. in Nanotechnology/Materials Science with a good background in Solid State Physics, Quantum Mechanics and/or Computational Physics.

Desirable: NET/GATE in Physics, Good knowledge in Fortran 90, basics of density functional theory and Linux OS.

Fellowship: For Postgraduate Degree in Basic Sciences with CSIR-UGC NET, GATE qualified or GATE qualified Postgraduate Degree in Professional Course: Rs 25,000 per month + admissible HRA.

For others: Rs 16,000 per month + admissible HRA.

Registration for Ph.D.: Selected candidates should register for full time Ph.D. programme at the SRM University, Kattankulathur, Chennai.

Project duration: 3 years.

Note: All required research facilities will be provided.

Application procedure: Applicants should send the curriculum vitae to **Dr Ranjit Thapa** (Principal Investigator), in the following e-mail address: ranjit.phy@gmail.com. Subject of the e-mail should contain '**Application for JRF in CO Oxidation**'.

Last date of application: **15 days** from the date of advertisement.

Home page: www.ranjitcmslab.com

Original documents of photo ID/age proof certificates/degrees/mark sheets/GATE/NET result and other testimonials must be presented at the time of interview.

Junior Research Fellow/Project Assistant under DST-SERB Sponsored Project

Applications are invited for the position of Junior Research Fellow/Project Assistant under the DST-SERB sponsored project entitled as – '**Fabrication of Full-Cell Li-Ion Batteries using Advanced Layered Ni-Zn-Mn Cathode and Tin-Alloy Based Anode with Coin Cell and Pouch Cell Configurations**'.

Eligibility: M.Sc. or M.Tech. in Chemistry/Chemical Engineering/Materials Science/Nanoscience and Nanotechnology. NET/GATE/CSIR qualified candidate may be preferred.

Desirable: Preference will be given to prior experience in Electrochemistry or Materials Science and Engineering.

Fellowship: Rs 18,000 plus 20% HRA per month as per the norms.

Tenure of the fellowship: 3 years.

Registration for Ph.D.: Selected candidate should register for full-time Ph.D. programme at SRM University, Kattankulathur, Chennai 603 203.

Travel allowance: Second class train fare by the shortest route.

Interested candidates should send their detailed CV by e-mail to gnamamuthu.r@ktr.srmuniv.ac.in **within 15 days** of this advertisement. (Note: only selected candidates will be invited for interview by e-mail (or) phone.)

Principal Investigator: **Dr R. M. Gnanamuthu**, Asst. Professor (Research), Research Institute and Department of Chemistry, Room No. 1221, University Central Library Building, SRM University, Kattankulathur, Chennai 603 203, Tamil Nadu, e-mail: gnamamuthu.r@ktr.srmuniv.ac.in (or) gnamamuthu.chem@gmail.com.