

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

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Applications are invited from Indian nationals to work as a **Junior Research Fellow (JRF)** in a research project funded by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India.

Title of the Research Project: *Development of theoretical models to describe ^{14}N - ^1H decoupling in solid-state NMR*

Brief description of the project: The main objective of the project is to develop the decoupling methods involving quadrupolar spins in solid-state nuclear magnetic resonance (NMR) spectroscopy experiments with a special emphasis on ^{14}N - ^1H decoupling using effective Hamiltonian approach.

Duration: 3 years or till the completion of the project, whichever is earlier.

Qualifications: M.Sc. in Chemistry/Physics with at least 6.5 CGPA on a 10 point scale or 60% marks and having qualified either of the NET (CSIR/UGC)/ GATE. Shortlisted applicants will be called to appear for an interview.

Emoluments: As per DST rules. I & II year - Rs 25000/- p.m. + 10% HRA
III year - Rs 28000/- p.m. + 10% HRA

General Terms and conditions:

- 1) The position is temporary which will be renewed every year subject to the satisfactory performance. Candidate selected for this position can apply for the regular PhD program provided he/she qualifies the eligibility criterion for PhD program at IIT Ropar.
- 2) Original documents of mark sheets/degrees/certificates/age proof and other testimonials must be presented at the time of interview.
- 3) No TA/DA will be given to candidates attending the interview.

How to Apply?

The complete application packet should contain a detailed bio-data, xerox copies of the certificates/mark sheets (high school onwards) and any other testimonials. Completed applications should reach on or before Nov 20, 2017 by post or via email attachment (all files as one combined PDF) addressed to:

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