

रामन अनुसंधान संस्थान

सी. वी. रामन एवेन्यू, सदाशिवनगर, बेंगलूर - 560 080, भारत

RAMAN RESEARCH INSTITUTE

C. V. Raman Avenue, Sadashivanagar, Bangalore - 560 080, India



14 March 2022

To

Head of the Institute / Principal

Sir / Madam,

Please find attached the 'REVISED POSTER FOR PhD PROGRAM -2022' from the Raman Research Institute, Bengaluru. You are requested to circulate the attached poster in your Institute / Centre at the earliest.

Thanking you,

Yours faithfully,

Administrative Officer

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REVISED VERSION



**R A M A N
R E S E A R C H
I N S T I T U T E**

Admission to PhD 2022

Raman Research Institute is a premier research Institution founded by Nobel Laureate Sir C V Raman in 1948. The Institute has a rich heritage and conducts cutting edge research in frontier areas of Physics under contemporary research themes. Applications are invited from motivated and qualified students for admission to the PhD programme2022. Details of the activities of the research groups can be found at www.rrl.res.in

FORMAT OF THE PhD PROGRAMME: Research Scholars undergo intensive course work during the first year. The medium of instruction is English. On successful completion of the course work and other requirements for confirmation of their candidature, research students will be registered for a PhD degree with the Jawaharlal Nehru University (JNU), New Delhi.

SELECTION PROCEDURE: Candidates seeking admission are called for interview based on:

Performance in the Joint Entrance Screening Test (JEST) with a valid score. Please visit <http://www.jest.org.in> for more information on JEST.

first two years and Rs.35,000/- per month thereafter for the next three years, subject to satisfactory progress. In addition, they are paid a book grant totaling to Rs.50,000/- in 5 years. Hostel accommodation, if available, or HRA at applicable rates (presently 27%) of the scholarship, will be provided for a period of five years. RRI encourages and supports participation of students in national and international conferences.

RRI is also a participant in the Joint Astronomy Programme (JAP) with the Indian Institute of Science, Bengaluru.

WHO ARE ELIGIBLE: Candidates seeking admission in PhD programme must have a regular MSc degree in Physics/Mathematics or M.E./M.Tech degree in Engineering. Candidates should have a minimum of 55% marks in aggregate or equivalent for the qualifying degree. 5% relaxation is provided for the reserved categories. Students who expect to complete their final degree in the academic year 2021-2022 may also apply, provided they can produce their final score card at the time of admission. Reservations for SC/ST/OBC candidates will be as per norms.

Performance in CSIR-UGC NET for JRF (Physics) or in GATE (Physics/Mathematics) or in subject GRE (Physics) with a valid score.

FINAL SELECTION: The final selection of all the candidates is based on performance in the interviews to be held at RRI tentatively during May-June 2022. Call letters for interviews will be sent around second or third week of April 2022.

HOW TO APPLY: All candidates need to apply online for admissions at RRI via the link https://www.rrri.res.in/phd_programme.html. The online application process will start after the results of JEST, CSIR-UGC NET and GATE examinations are published. It is expected that online application will be open in the month of March 2022. Please visit the PhD Programme page of RRI website in March 2022 for further updates.

You may immediately register an expression of interest in advance using the link given in the PhD Programme page. In that case, you will receive an email once the online application is open.



AREAS OF RESEARCH

ASTRONOMY & ASTROPHYSICS

Cosmology and Galaxy Formation
Cosmic Rays and Gamma Ray Astronomy
Clusters of Galaxies
The Galaxy and the Interstellar Medium
The Intergalactic Medium
X-Ray Astronomy and X-Ray Astronomical Instrumentation
Signal Processing in Astronomy

LIGHT AND MATTER PHYSICS

Degenerate Bose and Fermi gases
Fundamental Tests of Quantum Mechanics
Intense Laser-Matter Interactions
Interaction of Single Atoms and Single Photons
Nonlinear Optics and Ultrafast Phenomena
Quantum Information, Computation and Cryptography
Quantum Optics and Cavity QED
Trapping and Cooling of Atoms, Ions and Molecules
Waves in Random Media

THEORETICAL PHYSICS

Condensed Matter and Statistical Physics
Non-Equilibrium Dynamics
Topological Quantum Matter
Light-Matter Interaction
Classical and Quantum Gravity

SOFT CONDENSED MATTER

Structure, Dynamics and Phase Behavior of Soft Matter
Rheology of Soft Matter and Living Cells
Physics of Biological Systems – Cells to DNA
Nano-devices for Biosensing
Liquid Crystals: Phase Transitions, Structure, Topological Defects, etc.

(Please note that PhD vacancies may not be available in some of the areas listed above.)