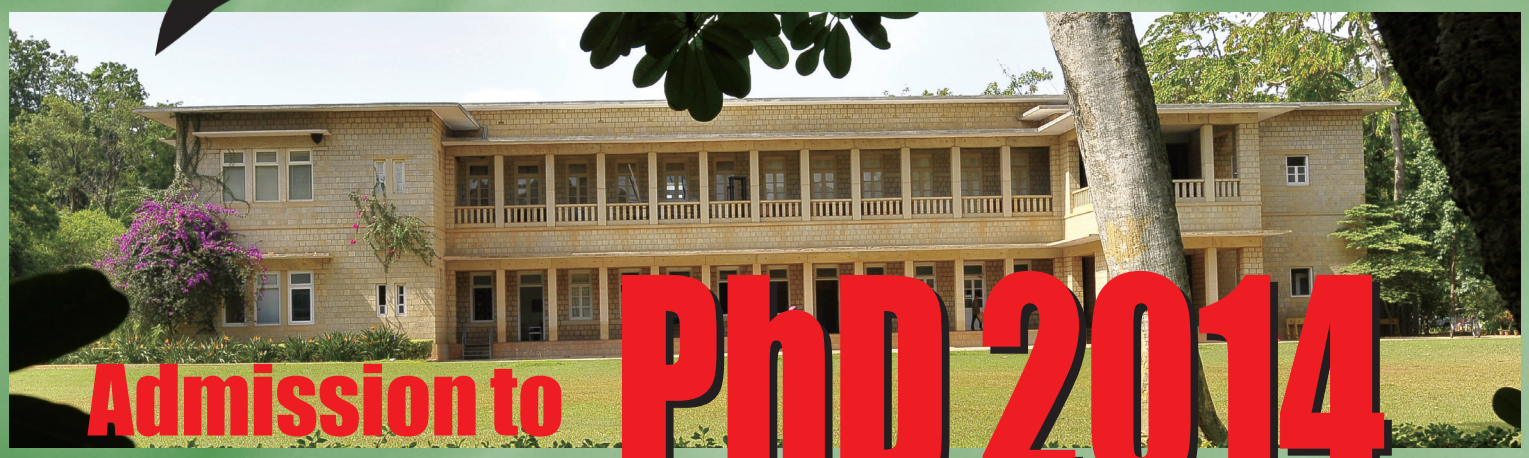
RAMAN RESEARCH INSTITUTE



Admission to PhD 2014

Raman Research Institute (RRI) is a premier research institution for advanced research. Applications are invited from motivated and qualified students for admission to the PhD programme 2014. Please visit http://www.rri.res.in/phd_programme.html for additional detail.

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 the candidature, they will be registered for a PhD degree with the Jawaharlal Nehru University, New Delhi. Students are paid a scholarship of Rs. 16,000/-per month for the first two years and Rs. 18,000/- thereafter for the next three years, subject to satisfactory progress. In addition, they are paid a book grant of Rs.5,000/- per annum for four years. Students are also provided hostel accommodation 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, Bangalore and the Physics in Biology Programme with the National Centre for Biological Sciences, Bangalore.

WHO ARE ELIGIBLE

Candidates seeking admission in Physics must have MSc degree in Physics/Mathematics with a minimum of **55% marks** in aggregate or equivalent or **first class** B.E./B.Tech degree in Engineering. Candidates seeking admission in Chemistry must have MSc degree in Chemistry with a minimum of 55% marks in aggregate. Students who expect to complete their final degree in the academic year 2013-2014 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.

SELECTION PROCEDURE

The Candidates seeking admission are called for interview based on:

Physics: Performance in the Joint Entrance Screening Test 2014 (JEST 2014) to be held on Sunday 16th February 2014 at several centers throughout the country. Please visit **http://www.jest.org.in** for additional information about JEST.
OR
Performance in UGC/-CSIR-NET for JRF or with sufficiently high score in GATE or in general GRE/Advanced GRE (Physics).

Chemistry: The candidates are selected for interview based on their performance in written test held at RRI or UGC/-CSIR NET for JRF.

The final selection for all the candidates is based on the performance in the interviews to be held at RRI in the second week of June 2014. Call letters for written test /interviews will be sent around mid-April, 2014.

Exceptional candidates, who have obtained Master's degree in physics with minimum 6.0 final GPA (on 10 point scale) or equivalent and have 2 years or more research experience with research publication(s) of acceptable standard, may apply for possible direct admission to the PhD program and can contact admissions@rri.res.in for further details.

HOW TO APPLY

All candidates need to apply for admissions at RRI. Students can apply online through http://www.rri.res.in/phd_programme.html link. ONLINE applications are preferred. For those who have difficulty in applying online, hard copy of the application forms can be requested from the admissions office, by sending a self-addressed envelope (25 x 20 cm) to the following address:

Areas of Research

ASTRONOMY & ASTROPHYSICS

Cosmology and Galaxy Formation
Normal and Active Galaxies
Clusters of Galaxies
The Galaxy & the Interstellar Medium
The Intergalactic Medium
Neutron Stars, Pulsars and X-ray Binaries
Signal Processing in Astronomy

CHEMISTRY

Synthesis and Study of Liquid Crystals
Nanomaterials and Soft Matter Chemistry
Chemistry of Surfaces and Interfaces

LIGHT AND MATTER PHYSICS

Bose Einstein Condensation
Laser Cooling & Trapping of Atoms
Ultra-cold Molecules
Propagation of Light in Random Media
Quantum Optics
Nonlinear Optics
Ultrafast Phenomena
Intense Laser Field Interactions
Quantum Information and Computation
Fundamental tests of Quantum Mechanics

SOFT CONDENSED MATTER

Liquid Crystals
Liquid Crystal Displays
Amphiphilic Systems
Colloids
Nanomaterials
Surface Science
Granular Materials
Experimental Biological Physics

THEORETICAL PHYSICS

Condensed Matter & Statistical Physics
Classical & Quantum Gravity
Gravitational Waves
Physics in Biology
Differential Geometry in Physics

Admissions 2014
Raman Research Institute
CV Raman Avenue, Sadashivanagar, Bangalore 560 080
Phone : (080) 2361 0122 (Ext. 135)
Fax : (080) 2361 0492 E-mail : admissions@rri.res.in

Online submission of application starts from : **January 15, 2014**
Last date for requesting the printed application forms : **March 15, 2014**
Last date for receiving the completed application forms (both online and hardcopy submission) : **March 31, 2014**

http://www.rri.res.in