

# JOINT ENTRANCE SCREENING TEST-2015

## For Ph. D. Programmes in *Physics / Theoretical Computer Science / Neuroscience*

**Sunday, February 15, 2015, from 10.00 a.m. to 1.00 p.m**

Ahmedabad, Allahabad, Aligarh, Bangalore, Bardhaman, Bhubaneswar, Bhopal, Chandigarh, Chennai, Delhi, Goa, Guwahati, Indore, Hyderabad, Jaipur, Kanpur, Kharagpur, Kolkata, Kochi, Madurai, Mumbai, Nainital, Nagpur, Patna, Pune, Raipur, Roorkee, Sambalpur, Silchar, Siliguri, Srinagar, Thiruvananthapuram, Udaipur, and Visakhapatnam.

Apply online through <http://www.jest.org.in> From: **November 01, 2014** To: **December 08, 2014**

Qualifying in JEST does not entitle an applicant to get a Research Fellowship. Using the JEST results, each institute will call a limited number of candidates for further selection depending on their requirements.



**Aryabhatta Research Institute of Observational Sciences, Nainital:**  
Astronomy and Astrophysics, Atmospheric Physics.



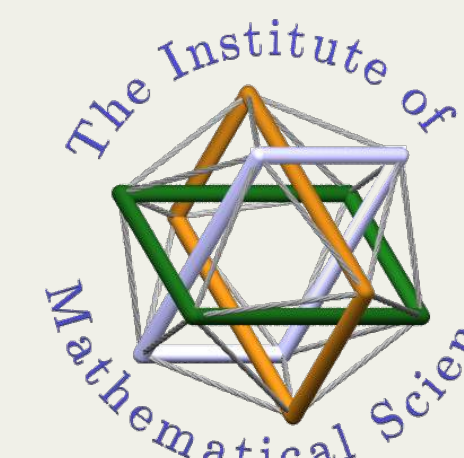
**Homi Bhabha National Institute, Mumbai:**  
a Deemed University.



**Harish-Chandra Research Institute, Allahabad:**  
Theoretical Physics & Astrophysics



**Indian Institute of Astrophysics, Bangalore:**  
Astronomy & Astrophysics, Astronomical Instrumentation, Atomic Physics.



**The Institute of Mathematical Sciences, Chennai:**  
Theoretical Physics, & Theoretical Computer Science.



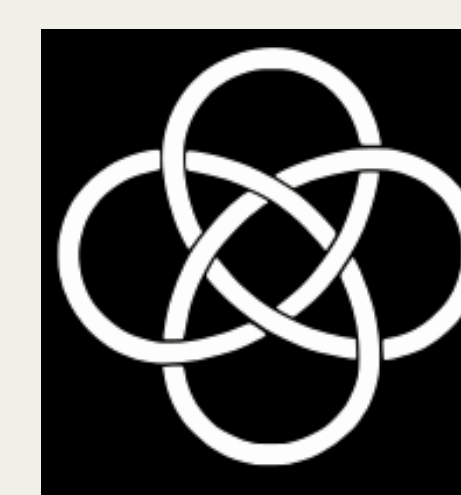
**International Centre for Theoretical Sciences, TIFR Bangalore:**  
Astrophysical Relativity, Data Assimilation & Dynamical Systems, Statistical Physics & Turbulence, String theory & Quantum Gravity.



**Institute of Physics, Bhubaneswar:**  
Physics (Condensed Matter, Nuclear and High Energy Physics) & Accelerator-based Research.



**Institute for Plasma Research, Gandhinagar:**  
Theoretical & Expt. Plasma Phy, Fusion related Phy. & Industrial Plasma Phy.



**Inter-University Centre for Astronomy and Astrophysics, Pune:**  
Physics, Astronomy & Astrophysics.



**Indira Gandhi Centre for Atomic Research, Kalpakkam:**  
Solid State Phase transformations, Superconductivity, Structure & dynamics of soft condensed matter, Band structure studies, Accelerators based Irradiation induced phenomena, Low-dim systems, Phy of interfaces, Nano-materials, Thin films tech & Theoretical physics



**Indian Institute of Science, Bangalore:**  
Condensed Matter Physics (Experiments & Theory), Astronomy & Astrophysics (Theoretical), Atomic & Optical Physics (Experimental), Bio-crystallography & Bioinformatics, & High Energy Physics (Theoretical).



**Indian Institute of Science Education and Research, Bhopal:**  
Condensed Matter Physics (Theory and Experiment), Soft Matter Physics(Theory), Biophysics, Laser Plasma Interactions, Ultrafast Physics(Experiment), Astrophysics and Cosmology, High Energy Physics (Theory, Phenomenology, Experiment), Nonlinear optics.



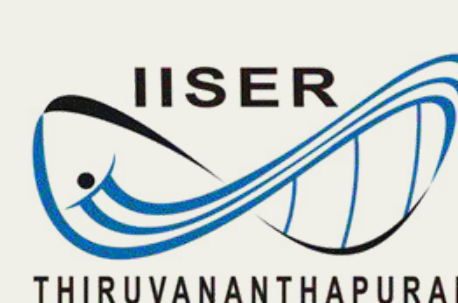
**Indian Institute of Science Education and Research, Kolkata:**  
Condensed Matter Physics, Field Theory, Classical & Quantum Gravity, Cosmology, Solar Science, High Energy Physics, Non-linear dynamics, Stat. Physics, Soft Matter, Optics & Spectroscopy, Atomic physics, Biophotonics, Spintronics, Nanoscience, NMR, Quantum Info.



**Indian Institute of Science Education and Research, Mohali:**  
Quantum Information (Experiment & Theory), Complex systems & Networks, Theoretical Astrophysics & Cosmology, String theory, Statistical physics, Quantum thermodynamics, Condensed Matter (Theory & Experiment) NMR-Methodology, Ultra-fast Physics, Low temperature physics.



**Indian Institute of Science Education and Research, Pune:**  
Condensed Matter Physics, Computational Material Science, Nanotechnology, Atomic Physics & Quantum Optics, Non-linear Dynamics, Astrophysics, Particle Physics & Field Theory, Solar & Plasma Physics, Quantum Information Processing, Soft Matter.



**Indian Institute of Science Education and Research, Thiruvananthapuram:**  
Experimental: Magnetism, Superconductivity, Nanoscience, Photonics, Semiconductor Physics, Surface Sciences, Nano-scale Plasmonics, Ultrafast Spectroscopy, Non-linear Optics; Theory: Cosmology, Gravitational Waves, Quantum Information, Statistical Physics, Condensed Matter and String Theory.



**National Institute of Science Education and Research, Bhubaneswar:**  
String theory, Lattice QCD, Expt. High Energy Physics, Soft Condensed Matter Physics, Electronic structure, Statistical Mechanics, Superconductivity & Magnetism, Nano-science, Non-linear Optics, Ultracold Atoms, Quantum Optics & Quantum Information.



**Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore:**  
Experimental & Theoretical Condensed Matter Physics, Biophysics, Advanced Electron Microscopy and Spectroscopy, Statistical Mechanics, Materials Science and Soft Condensed Matter



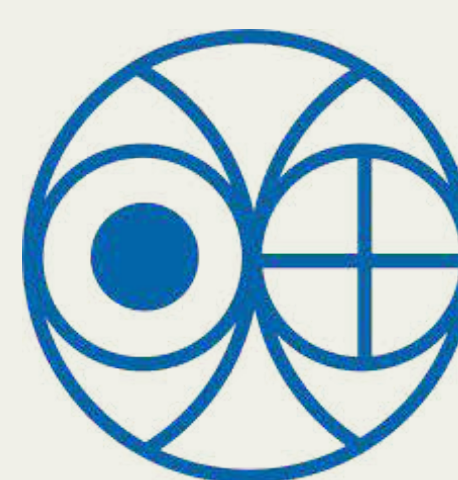
**National Brain Research Centre, Gurgaon:**  
Neurosciences: Systems, computational, cognitive & molecular. Neurocomputing, neuroinformatics & neuroimaging.



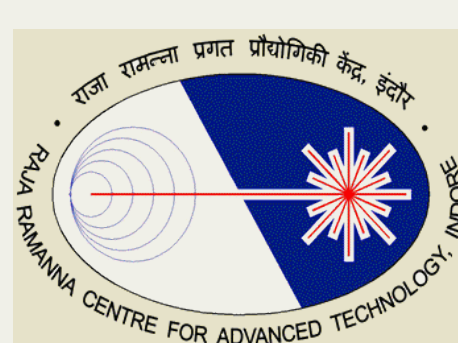
**National Centre for Radio Astrophysics, TIFR, Pune:**  
Astronomy & Astrophysics.



**Raman Research Institute, Bangalore:**  
Astronomy & Astrophysics, Light & Matter Physics, Soft Condensed Matter Physics (Liquid Crystals, Physics in Biology), & Theoretical Physics.



**Physical Research Laboratory, Ahmedabad:**  
Theoretical Physics, Astronomy & Astrophysics, Solar Physics, Space & Atmospheric Sciences, Planetary Science & Geo-Sciences.



**Raja Ramanna Centre for Advanced Technology, Indore:**  
Lasers & their Applications, Laser Plasma Interaction, Cold Atom Physics, Condensed Matter Physics (Superconductivity & Magnetism, Crystals & Thin Films), Nanomaterials & Applications, Non-linear & Ultrafast Optical Studies, Beam Physics, & Free Electron Laser



**Satyendra Nath Bose National Centre for Basic Sciences, Kolkata:**  
Astrophysics & Cosmology, Chemical & Biological Physics, Condensed Matter Physics & Material Science, High Energy Physics & Quantum Field Theory, Mathematical Physics, Nanosciences, Quantum Optics & Quantum Information, Statistical Physics, Complex Systems.  
**UGC-DAE Consortium for Scientific Research, Indore:**  
Thin Films, X-ray, Optical & Electron Spectroscopies Elec, Mag. & Thermal Properties at Low Temp. & High Magnetic Fields, Neutron Diffraction; Positron Annihilation, Mossbauer,  $\gamma$  Ray Spectroscopies; Expt. Nuclear Phy



**Saha Institute of Nuclear Physics, Kolkata:**  
Condensed Matter Physics, Nuclear Physics, High Energy Physics, Astroparticle Physics, Quantum Gravity, String Theory, Mathematical Physics, Surface Science & Plasma Physics



**TIFR Centre for Interdisciplinary Sciences, Hyderabad:**  
Condensed Matter Physics & Materials Science of Nonequilibrium, Soft & Living matter, Fluid Dynamics, Intense Laser-matter interactions, Computational Physics, Statistical physics, NMR of Biophysical & other systems



**Tata Institute of Fundamental Research, Mumbai:**  
Astronomy & Astrophysics, Condensed Matter Physics & Material Science, High Energy Physics, Nuclear & Atomic Physics, Theoretical Physics



**Variable Energy Cyclotron Centre, Kolkata:**  
Accelerator Physics, Condensed Matter Physics & Materials Science, Nuclear Physics (Experiments and Theory), Relativistic Heavy Ion Collisions & QCD Phase Transition (Experiments, Theory), & Physics of Neutrinos (Experiments).

### Eligibility Criteria

The eligibility criteria is BSc. for Integrated Phd. and MSc. for Phd. programmes. Students in the final year of these courses are also eligible to appear for JEST 2015. Additionally in some institutions B.Tech./B.E./M.E./M.Tech/4 year B.S. may also be eligible for Phd/Int-Phd programmes. **Please check the websites of individual institutions for further details.**

Other forms(email or postal) of applications are not accepted.  
Application Fee : ₹300/- (₹150/- for SC/ST)

For further information please visit JEST website (<http://www.jest.org.in>)