

PHYSICAL RESEARCH LABORATORY

NAURANGPURA, AHMEDABAD 380 009

(Advt. No. 3/96)

Opportunities for Research and Training

Physical Research Laboratory, Ahmedabad, offers excellent research opportunities in various areas of Theoretical and Experimental Physics as outlined below:

Theoretical High Energy and Particle Physics
Nuclear Physics
Plasma Physics and Gravitational Physics
Nonlinear Dynamics and Computational Physics
Laser Physics and Quantum Optics
Atomic and Molecular Physics.

Solar System Astrophysics and Meteorite Studies
Infrared and Optical Astronomy
Solar Physics
Crustal Evolution, Geochemistry and Geochronology
Oceanography and Palaeoclimatology
Atmospheric Sciences and Aeronomy.

The Observational Astronomy and Solar Physics work are being carried out at Mount Abu Infrared Observatory using 1.2 meter telescope and Udaipur Solar Observatory.

Bright and highly motivated students and young scientists are encouraged to apply for research and training under the following categories:

Ph D Programme

M Sc students with first class or high second class degree in Physics/Chemistry/Applied Mathematics/Geology/Geophysics/Oceanography, and with Physics and Mathematics as subjects in their B Sc degree, are selected in this programme to pursue research leading to Ph D degree under the guidance of Senior Scientists of the Laboratory. The research scholars are selected on the basis of their academic record, written test and personal interview. They will be required to undergo course work in various topics during the first year. Continuation of the research scholarship is subject to successful completion of this course work.

Associateship programme

M Sc students with first class or high second class degree in Physics/Chemistry/Applied Mathematics/Geology/Geophysics/Oceanography, and with Physics and Mathematics as subjects in their B Sc degree, are selected in this programme to do research in association with Senior Scientists in specific experimental programmes and participate in the associated theoretical/modelling activities. Research aptitude is an important desirable qualification. The candidates are selected on the basis of their academic record, written test and personal interview. They will be required to develop appropriate experimental skills and theoretical modelling capabilities as required.

The Associateship will be awarded initially for one year, but may be continued for three years depending on the progress made by the individual. A few of the selected Project Associates who do exceptionally well may be considered for suitable permanent positions in the Laboratory any time during their tenure and will be allowed to develop their future scientific career.

Post-Doctoral Research Programme

Young scientists with Ph D degree in Physics, Chemistry or any branch of Earth Sciences and preferably having experience in these fields are selected as Post-Doctoral Fellows to do research in

any of the fields mentioned above. Tenure of the Post-Doctoral Fellows will be for one year and is extendable for another year subject to satisfactory progress. There is a possibility of permanent absorption in PRL for meritorious and exceptionally good candidates.

Scholarship/Fellowship

For Ph D Programme

Rs 2800/- per month. The scholarship may be raised to Rs. 3000/- per month after two years and to Rs 3200/- per month after four years subject to appropriate evaluation. A book allowance of Rs 3000/- per year for each of the four years starting from the first year of Research Scholarship is provided. Selected candidates are provided accommodation in the students' hostel.

For Associateship Programme

Rs 3500/- per month. Hostel facilities at a nominal rent or an HRA of Rs 650/- per month (in lieu of non-availability of hostel accommodation) may be provided during the Associateship period.

For Post Doctoral Research Programme

Rs 4000/- to Rs 4500/- depending on the experience plus medical care. A small furnished apartment may also be provided, but if accommodation is not available, HRA of Rs 650/- per month will be given.

Procedure for Application

For Ph D/Associateship Programmes

Additional information and application forms for the Ph D/Associateship programmes can be obtained from:

THE DEPUTY REGISTRAR
PHYSICAL RESEARCH LABORATORY
NAVRANGPURA
AHMEDABAD 380 009.

Duly completed application forms should reach the above address on or before Monday, 29 April 1996.

Selected candidates called for written test and interview from outstations will be paid to-and-fro second class railway/bus fare (whichever is less) by the shortest route from the address given in the application.

For Post-Doctoral Research Programme

The application on plain paper for Post-Doctoral Fellowships containing (a) bio-data and list of publications; (b) highlights of thesis and (c) brief research proposal should be sent to:

THE DEAN
PHYSICAL RESEARCH LABORATORY
NAVRANGPURA
AHMEDABAD 380 009.

In addition, the candidate should arrange for at least two letters of recommendation to be sent directly to the above address.

Candidates called for interview from outstations will be paid to-and-fro first class train/bus fare by the shortest route from the address given in the application.