



Physical Research Laboratory

Navrangpura, Ahmedabad 380 009

(Advt. No. 6/97)

OPPORTUNITIES FOR RESEARCH AND TRAINING

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

ASTRONOMY AND ASTROPHYSICS: Infrared and Optical Astronomy; Solar Physics (Udaipur Solar Observatory).

EARTH SCIENCES AND SOLAR SYSTEM STUDIES: Geochemistry and Geochronology; Oceanography; Palaeoclimatology; Solar System and Meteorite Studies.

LASER PHYSICS AND QUANTUM OPTICS

PLANETARY ATMOSPHERES AND AERONOMY: Earth's Middle Atmospheric Studies; Ionospheric Physics; Laboratory Astrophysics; Planetary Atmospheres.

THEORETICAL PHYSICS: Astrophysics; Atomic and Molecular Physics; High Energy Physics; Nuclear Physics; Plasma Physics; Nonlinear Dynamics; Computational Physics.

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

a. 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. Those who are appearing for their M Sc degree examination this year are also eligible to apply. Research Scholars are selected on the basis of the academic record, written test and personal interview. They will be required to undergo course work in various topics during the first year and continuation of the research scholarship is subject to successful completion of this course work.

b. PROJECT 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 work in association with Senior Scientists in specific experimental programmes and to participate in the associated theoretical/modelling activities. Those who are appearing for their M Sc degree examination this year are also eligible to apply. 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 Project Associateship will be awarded initially for one year, but may be continued for up to 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.

c. 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. Those who have submitted their Ph D thesis are also eligible to apply. Tenure of the Post Doctoral Fellows will be for one year and is extendable for another year subject to satisfactory progress.

Scholarship/Fellowship

a. For Ph D PROGRAMME: Rs 2800/- per month plus medical care. 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 four years, starting from the first year of Research Scholarship, is also provided. Selected candidates are provided accommodation in the Students' Hostel.

b. For PROJECT ASSOCIATESHIP PROGRAMME: Rs 3500/- per month plus medical care. Hostel facilities at a nominal rent or house rent of Rs 650/- per month (in lieu of non-availability of hostel accommodation) may be provided during the Associateship period.

c. For POST DOCTORAL RESEARCH PROGRAMME: Rs 4000/- to Rs 4500/- depending on the experience plus medical care. In case of non-availability of accommodation, house rent of Rs 650/- per month will be given.

Procedure for application

For Ph D/PROJECT ASSOCIATESHIP PROGRAMMES: Additional information and application forms for the PhD Project Associateship programmes can be obtained from

**The Administrative Officer-I,
Physical Research Laboratory,
P.O. Box No. 4218,
Navrangpura, Ahmedabad 380 009.**

Duly completed application forms should reach the above address **on or before 10 May 1997**. Selected candidates called for the 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 Fellowship containing (a) bio-data and list of publications, (b) highlights of thesis (c) brief research proposal should be sent to:

**The Dean
Physical Research Laboratory,
P.O. Box No. 4218,
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. The last date for receiving the completed application is 30 May 1997. 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.