

**POST DOCTORAL FELLOWSHIP**  
*THE MECHANICS OF LIVING MATTER*  
**INSTITUT CURIE AND ESPCI, PARIS, FRANCE**

This postdoctoral position, funded by the Indo-French Centre for the Promotion of Advanced Research (IFCPAR), is part of a research project involving scientists at the Institut Curie and the Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI), Paris, the Indian Institute of Science and the Raman Research Institute, Bangalore, and the Institute of Mathematical Sciences, Chennai. The project is concerned with collective behaviour in active systems – motile cells or bacteria, motors, filaments and ATP, biomembranes containing force centres and analogue systems in granular or colloidal matter. We will use analytical and numerical approaches to exploit coarse-grained hydrodynamic models that we have developed for such systems, to understand and predict shape-change, division and motion in individual cells, and patterns in the collective movement of microorganisms, and possibly to use these ideas to create biomimetic model systems.

The investigators on the project are David Lacoste, ESPCI, Paris, Jean-Francois Joanny and Jacques Prost, Institut Curie, Paris, Gautam Menon, Institute of Mathematical Sciences, Chennai, Yashodhan Hatwalne and Madan Rao, Raman Research Institute, Bangalore, and Sriram Ramaswamy, Indian Institute of Science, Bangalore. This advertisement can be found online, with links to the investigators' webpages, at

<http://www.physics.iisc.ernet.in/~sriram/indofrench.html>

The postdoctoral fellow will be based at ESPCI and Institut Curie, Paris. Applicants must be citizens of India with a Ph D, in physics, engineering, chemical physics or physical chemistry, with high-quality publications in soft-matter, statistical or biological physics. The position is initially for a period of one year, renewable for a second based on performance. Persons who have submitted but not yet defended their Ph D theses will also be considered. A salary of 1850 Euros/Month (1300 Euros/month if you do not yet have a Ph D) will be provided by the IFCPAR. To apply please send (email strongly preferred) your CV including a publication list, and the names and contact details of persons who will write letters of recommendation for you, to Jacques Prost [jacques.prost@curie.fr](mailto:jacques.prost@curie.fr), Directeur ESPCI, 10 rue Vauquelin, 75231 Paris CEDEX 05, France and Sriram Ramaswamy [sriram@physics.iisc.ernet.in](mailto:sriram@physics.iisc.ernet.in) Department of Physics, Indian Institute of Science, Bangalore 560 012.

**Indian Institute of Technology  
Kanpur**

Applications are invited for the post of one Junior Research Fellow/Project Associate for a research project '**INTERFLUVE STRATIGRAPHY, SEDIMENTOLOGY AND GEOCHEMISTRY OF THE CENTRAL AND SOUTHERN GANGA PLAINS**' sponsored by the Department of Science and Technology, Govt of India at the salary range of Rs 6000–15,000 plus HRA and medical allowances as per institute's norms.

*Essential qualification* is M.Sc./M.Tech. in Geology/ Applied Geology/Engineering Geology and it is desirable to have familiarity with geomorphology, remote sensing and laboratory methods in sedimentology. The post is purely temporary and contractual. The initial appointment will be for three months which can be extended up to one year or more based on satisfactory performance. Applications on plain paper outlining complete biodata, professional experience, etc. may be sent to **Professor Rajiv Sinha, Engineering Geosciences Group, Department of Civil Engineering, IIT Kanpur, Kanpur 208 016** or at [rsinha@iitk.ac.in](mailto:rsinha@iitk.ac.in) latest by **30th September 2006**.

**Indian Rubber Manufacturers  
Research Association**

Indian Rubber Manufacturers Research Association, a R&D Institute for Rubber and Allied Industries, affiliated to Government of India needs Junior Research Fellow. For further details, visit our website: [www.irmra.org](http://www.irmra.org) and respond within 7 days to the Director.