

## **Department of Science & Technology**

### **(International Division)**

#### **Call for Indian applications for Collaborative Research & Advanced Training at Sincrotrone Trieste, Italy in 2001**

1. The current Indo-Italian Program of Cooperation (POC) in Science & Technology provides for sponsoring Indian scientists and engineers for collaborative research and advanced training to Sincrotrone Trieste for periods up to 3 months. Under this arrangement, the chosen Indian candidate will be paid international air travel and overseas medical insurance costs by Indian Department of Science & Technology and living expenses for stay in Italy @Lit 180,000 per day or Lit 2 Million per month by Italian Ministry of Foreign Affairs.
2. Elettra is a third generation 2 GeV Synchrotron Radiation Source of high brilliance and offers intense VUV, soft and hard X-ray beams using bending magnets, undulators and wigglers. The following beamlines at the machine are operational for different kinds of experiments.
  - i. Super ESCA (Beamline 2.2 R)
  - ii. ESCA Microscopy (Beamline 2.2 L)
  - iii. VUV Photoemission (Beamline 3.2 R)
  - iv. Spectromicroscopy (Beamline 3.2 L)
  - v. Circularly Polarised Light (Beamline 4.2 R)
  - vi. Hard X-ray Diffraction (Beamline 5.2 R)
  - vii. Small Angle X-ray Scattering (Beamline 5.2 L)
  - viii. Gas Phase Photoemission (Beamline 6.2 L)
  - ix. Synchrotron Radiation for Medical Physics-SYRMEP (Beamline 6.1 R)
  - x. Surface Diffraction (Beamline 7.2 R)

Further details of the beamlines are available at internet address <http://www.elettra.trieste.it>

3. Indian scientists working in areas utilising any of the above beamlines are requested to apply giving their biodata along with their present position, place of work, list of significant research publications and current interests which would be relevant to the utilization of one of the above mentioned beamlines on which training is required.
4. It is expected that the training would give the Indian scientist sufficient experience to work with the beamlines to which they would be attached to understand the range of experiments that can be executed on a beamline and the actions involved in sample preparation/data collection and analysis. Applications that fulfill the demands for advanced training in relation to commissioning of INDUS-2 would also be considered.
5. The application with relevant information (para 2 and 3 refs) should reach Smt. Sadhana Relia, Scientist F, International Division, Department of Science & Technology, New Delhi 110 016 (e-mail: [srelia@alpha.nic.in](mailto:srelia@alpha.nic.in) Fax: +91-11-686 2418) by 31 October 2001 (1700 hrs).