

CENTRE FOR SOFT MATTER RESEARCH

(Formerly Centre for Liquid Crystal Research)

P. B. No. 1329, Prof. U. R. Rao Road, Jalahalli, Bangalore 560 013

Web: <http://www.csmr.res.in>

Centre for Soft Matter Research (CSMR) is an autonomous institute under the Department of Science and Technology (DST), Government of India. The Centre, in addition to research on liquid crystal materials and devices, has expanded its interests to related areas in soft matter. The Centre has close collaborations with other research institutes, both within the country and abroad.

Research Areas

- ❖ Photoinduced phase transitions, X-ray diffraction, High pressure studies, Rheological studies, Dielectric studies, Electric and magnetic field effects and Electro-optics of liquid crystals.
- ❖ Chromonic and ionic liquid crystals, Nanoparticles doped liquid crystals, Plastic crystals and Gels.
- ❖ Synthesis and characterization of liquid crystals: Calamitics, Discotics, Bent-core molecules, Mesoionics, Oligopeptides, Metallomesogens, Gelators, Dimers, Oligomers and Polymers.
- ❖ Magnetic nanoparticles and thin films, Langmuir-Blodgett films, Surface science, Interfacial science and Interfacial rheology.
- ❖ Synthesis of nanoscale materials and scanning probe microscopy studies, Molecular adsorption on surfaces and Nanolithography.

As a prime part of research activity, CSMR conducts doctoral programme and for the award of Ph.D. degree, it is affiliated to Mangalore University. **The Centre invites applications for Ph.D. admissions from motivated candidates willing to take up research in the above areas.**

Fellowship will be provided to students and they will be encouraged to participate in national workshops, symposia and conferences. Hostel accommodation is available for students.

Essential Qualifications

Masters Degree from a recognized University in Physics/Chemistry with at least 60% aggregate marks for General Category and 55% for SC/ST candidates. Preference will be given to candidates specialized in Condensed Matter Physics/Organic Chemistry/Physical Chemistry at the masters level and also to those who have cleared the NET/GATE. Students who have appeared for the final year examination and expected to complete their degree before 30 September 2011 may also apply.

Fellowships*

Rs. 12,000 per month and HRA for the initial two years

Rs. 14,000 per month and HRA for subsequent years

* (Subject to revision)

Application form and related information may be downloaded from CSMR website <http://www.csmr.res.in/phdprogramme> or obtained by sending a request by email to admission@csmr.res.in or by post to Admissions, CSMR.

Last date for receipt of completed applications is 29 April 2011.