

CENTRAL SALT & MARINE CHEMICALS RESEARCH INSTITUTE (CSMCRI), BHAVNAGAR

(Council of Scientific & Industrial Research)

ADVERTISEMENT NO. 1/2000.

CSMCRI has made significant R&D contributions in salt and marine chemicals, specialty inorganics & catalysis, biochemicals from marine algae, saline and arid zone plantation technologies, and membrane technology for desalination and industrial applications. Its applied research thrust is complemented by strong emphasis on underpinning knowledge creation leading up to Ph.D. programmes, wherever possible. It has excellent infrastructure facilities such as sophisticated analytical instruments, a well subscribed library, LAN & computation facilities, and provides a conducive environment for innovative research.

Applications are invited from highly motivated **CSIR Research Associates/Research Fellows** under various challenging projects, typically for duration of 3 years. About 12 openings in total are also available for candidates with proven track record of academic accomplishment for placement as **Project Assistants** under sponsored/collaborative projects.

Organic Chemists – 6 (ligand design for asymmetric epoxidation and polymerization catalysts, functional modification of polysaccharides from seaweeds, isolation of bioactives from terrestrial and marine plants, novel process chemistries).

Inorganic Chemists – 4 (synthesis, characterization and chemical reactivity of novel metal complexes for diverse catalytic applications; selective metal extraction and transport processes).

Physical Chemists – 6 (studies of nucleation and crystal habit modification; phase diagrams of inorganic salt mixtures; characterization of natural clays and their modification for specialty applications including catalysis; chemical kinetics and mechanistic studies; rheological studies of gels; studies of surface active agents for special applications; molecular modelling of reaction intermediates).

Analytical Chemists – 3 (New analytical method developments for complex systems; analysis of plant metabolites; surface characterization of membranes; non-invasive techniques for analysis of oils and phycocolloids; on-line monitoring of reactions).

Polymer Chemists – 4 (Surface modification of membranes; water-based polymer processing technologies; studies of natural polymers; structure–property correlations).

Chemical Engineers – 3 (Optimisation of bench scale processes; Scale-up design; process simulation).

Botanists – 3 (Selection and clonal propagation of marine algae and plants for saline wasteland; plant growth in relation to environmental factors; effect of growth promoters; plant embryology; taxonomic studies).

Biochemists/Biotechnologists – 4 (Tissue culture, protoplast fusion/somatic hybridization of economically important plants; molecular characterization studies including DNA fingerprinting; selective ion uptake; nutritional/phytochemical aspects related to plant toxins).

Microbiologists – 3 (Identification and studies of marine microbes including halophilic bacteria, cyanobacteria, and microbes producing polysaccharides and bioactives; novel microbial effluent treatment processes; studies of fouling mechanisms of membranes).

Educational qualifications:

Research Associates & Research Fellows: As per CSIR norms.

Project Assistants: First class M.Sc. or M.Sc. (Tech) degree in appropriate disciplines or first class B. Tech./B.E. degree in case of Chemical Engineers, with age not exceeding 25 years.

Remuneration:

Research Associates/Research Fellows: As per CSIR norms.

Project Assistants: Rs 5000 p.m. Limited accommodation is available in the Institute and preference will be given to Research Associates/Research Fellows.

Handwritten applications on plain paper with relevant personal and educational details and affixing a recent passport size photograph duly supported by attested copies of documents and testimonials may be sent to:

The Controller of Administration,
Central Salt & Marine Chemicals Research Institute,
G.B. Marg, Bhavnagar 364 002 (Gujarat)

so as to reach within **3 weeks of the date of advertisement**. Shortlisted candidates will be notified by letter.