

# Department of Science and Technology

## New Initiative in Bioinorganic Chemistry

Department of Science and Technology, Government of India is launching three types of programmes in the area of bioinorganic chemistry for strengthening research in this area. They are:

### 1. Generation of major programmes in the areas listed below:

- a. Oxido reductases: As functional models for understanding phenomena and structure-activity relation
- b. Bio mineralization
- c. Metal based drugs including leads from traditional medicine

Under this category, inter- or intra-institutional collaboration among different research groups is welcomed.

### 2. Invitation of individual/collaborative projects in the following areas:

- a. Diagnostic and imaging through bioinorganic systems
- b. Fully functional models for metallo enzymes including biomimetic systems
- c. Ion binding and directed transport including drugs
- d. Metal ions as selective structure breakers for proteins, nucleic acids and their conjugates
- e. Metal induced neuro degenerative disorders
- f. Development of new advanced techniques for bioinorganic molecules including computation methods
- g. Any other research areas in bioinorganic chemistry

Proposals are invited in the above two categories and interested researchers may submit twenty copies of the proposal in SERC format (The format can be downloaded from our website: [www.serc-dst.org](http://www.serc-dst.org)).

### 3. Institution of twenty Bio-inorganic Research Fellowships (15 pre-doctoral and 5 post-doctoral)

The conditions of the fellowship are given below:

#### ***For pre-doctoral fellowship:***

1. Registration leading to Ph.D. degree is essential.
2. Mentor should forward the students application to DST through the institution where research would be carried out.
3. The institute should certify that the candidate possessed entry requirements for doctoral research and would be permitted to register for Ph.D. if the fellowship was granted.
4. Fellowship amount equivalent to DST/CSIR will be given for a period of three years (2 years JRF and 1 year SRF) and a contingency grant of Rs 50,000/- per year will also be provided. The candidate is expected to earn SRF from CSIR and other sources after the end of 3 years and the fellowship will not be extended beyond three years. It is expected that the candidate will be able to join the main stream of research fellowship schemes within the 3 years of research experience.
5. The application should include, among other things, marks obtained from class XII onwards, details of national level test passed (GATE/NET), research experience, if any, etc. There is no separate format for applying for this fellowship.

#### ***For post-doctoral fellowship:***

1. Maximum duration is two years with an initial period of one year extendable by one more year.
2. Emoluments equivalent to DST/CSIR will be provided. In addition annual contingency and consumables grant of Rs 1.00 lakhs (including Rs 15,000/- for travel) will be provided.
3. Applications for post-doctoral fellowship need not be forwarded through the host institution initially and there will be no personal interview.
4. The fellowship is not available for continuing post-doctoral research with the Ph.D. supervisor.
5. The application should include, among other things, research work done during doctoral work, list of publications, proposed research work, etc. There is no format for applying for this fellowship.

Last date for receiving proposals/applications for all the three categories is **31 March 2006**. The proposals/applications may be sent to the following address with the envelope superscribing 'New initiative in Bioinorganic Chemistry'.

Shri V. V. Jacob, Scientist, SERC Division, Department of Science and Technology, Technology Bhawan, New Mehrauli Road, New Delhi 110 016 (e-mail: [jacob@nic.in](mailto:jacob@nic.in))

# DEPARTMENT OF BIOTECHNOLOGY

Ministry of Science and Technology

Block 2, 6–8th Floor

CGO Complex, Lodhi Road, New Delhi 110 003

## Vacation Training Programme on Bioresources for School Children

National Bioresource Development Board (NBDB), Department of Biotechnology (DBT) is supporting programme on Bioresource Development & Utilization. To create an awareness among school children vacation training programmes are being supported by the Board. The main objective of the courses is to impart training on sustainable utilization and conservation of bioresources and to create an awareness about the relevance of bioresources in day to day life. The training course is aimed at students who have recently appeared in the X class examination and are awaiting results or who have passed X class examination.

Applications are invited for conducting vacation-training programme on bioresources for school children from Universities, Research Institutes, Colleges, Registered Societies (NGOs) having facility for boarding and lodging, well established laboratory facilities for biotechnology, in-house expertise on bioresources and biotechnology are eligible to apply. The institutions should have a proven track record and expertise on research and development concerning bioresources (proof of the same should be appended with the proposal).

The complete application alongwith necessary documents should be sent to Dr Meenakshi Munshi, Principal Scientific Officer, Department of Biotechnology, Block-2 (7th Floor), CGO Complex, Lodi Road, New Delhi 110 003 Phone: 2436 1035 e-mail: meenakshi29.dbt@nic.in so as to reach the Department **on or before 5 January 2006**. The detailed guidelines, eligibility requirements for host institutes and students, course curriculum and proforma can be downloaded from <http://www.dbtindia.nic.in> or <http://www.dbtindia.gov.in>.