

**Department of Science and Technology,
Technology System Development Programme (TSDP)**

Invitation of Pre-Proposals on “**Electrochemical and Optical Imaging Device Technologies**”

The DST is the nodal Government agency for promotion of Science & Technology in project mode in the country. The TSD Division of the DST through its TSDP has been supporting Technology Development related projects. It proposes to support projects focusing on Product development and Platform creation in the areas of ‘**Electrochemical and Optical Imaging Device Technologies**’. In this connection, a discussion meeting cum workshop on the above topics is planned during **29th Feb-2nd March 2016 at Amrita Vishwa Vidyalaya, Coimbatore**. The DST invites from Researchers, the Pre-Proposals with clearly identified objectives and well laid out road map for product development for which the concept has already been demonstrated at the laboratory level. The accepted Pre- proposals are required to be presented by the Researchers and will be discussed by a group of experts at the meeting to provide feedback to the investigators for further course of action.

The scope of the meeting includes the following and other closely allied themes:

- **Electrochemical and optical sensing and bio-sensing.**
- **Cost effective Medical Imaging: Micro-modal microscopy, Optical tomography, Hyper spectral imaging, Raman and MRI.**
- **Lab-on-a-chip, Microfluidic platform for pathogen sensing, fluorescence sensing for medical diagnostics etc.,**
- **Instrumentation with methodology for Surface Plasmon resonance, Surface Plasmon coupled Emission, fluorescence etc., for bio-sensing.**
- **Hand-held and Bench-top Instrumentation for electrochemical sensing and bio-sensing, Wearable Bio-medical sensors and Biomedical Optical Imaging systems and associated electronics.**

The researcher working in the areas, who may have several interesting ideas relevant to these applications and device development that may be translated into Technology development in project mode **may submit pre-proposals for consideration by DST for financial support with a value of Rs. 50:00 Lakh and above**. The DST is also willing to support good projects which have the potential for commercialization, if they meet the criteria laid down by the DST for its Technology System Development Programme (TSDP). (For further details please see the DST web site: <http://www.dst.gov.in/technology-systems-development-programme-tsdp>). The projects which have Multi-disciplinary, Multi-institutional and has industry partner right from initiation of the project are encouraged. The general Information and the required format for submission of the projects under Technology systems development programme can be accessed at the above mentioned web site. Travel support and local hospitality will be provided to the selected participants. The template of the presentation will be communicated during second week of February.

A two-page Pre-proposal as per the format enclosed may be submitted, through e-mail **on or before 10th February 2016 to:**

Dr. Rajeev Sharma
Scientist-D & Member Secretary, PAC on TSDP-DST
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: FORMAT OF THE PROJECT PRE-PROPOSAL :

Title of the Project Proposed:

Name and address (with email and contact phone number) of the PI and Co-PI

Participating investigators and their Institute(s)

Description of the Project (limit to about 2 pages)

1. Briefly introduce the technology to be developed; its significance and marketability (quarter a page)
2. Existing proof-of-concept or prototype or model (half a page)
3. Technology development objective (a few lines)
4. Schematic representation of the method/design and intended specifications of the technology proposed (half a page)
5. Deliverable with timeline and roadmap: (quarter page)
6. Commercial Potential identifying end users
6. Industry collaboration, if any,
7. Estimated Budget: (quarter page)

(Manpower, Consumables, Contingencies and Equipment meant only for the execution of project and not for lab infrastructure development which is outside the scope of the committee)
