



Government of India
Department of Science & Technology

Call S&T based Proposals for managing issues related to elderly population
(Technology Intervention for Elderly -TIE)

The Department of Science & Technology (DST) invites proposals on focused initiatives for S&T interventions to benefit of elderly population in the country. The Proposals should **focus on R&D for technological solutions** with multidisciplinary approach to ameliorate problems and improve quality of life of the elderly population in both rural and urban areas.

Some challenges identified for providing S&T solutions are:

1. Development of assistive devices required by the Elderly population in the urban/semi-urban/rural areas characterized by:

- Cost effective and affordable by elderly of different segments in society
- Inclusive designs
- Potential for commercialization

2. Field testing of newly developed technology for acceptance, evaluation and further adaptation.

3. Modulation of already existing technology specific for use of Elderly to suit Indian conditions.

4. Development of technology package for healthcare of Elderly to include preventive care in the area of:

- Area specific nutritional package
- Cost effective visual/hearing aids.
- Cost effective dentures/dental implants, etc.
- Documentation and validation of traditional health practices for elderly in codified Indian health system.
- Special studies related to general issues of mental & physical health of elderly
- Specific S&T interventions for Elderly with Alzheimer, Parkinson, Dementia, etc)

5. Safe Kitchens for Elderly.

6. Clothing/Textiles for Elderly (skin friendly, thermal (insulation and breath ability), function comfort, pressure, protection against risks in the environment, aesthetic appearance, etc).

7. Footwear for Elderly (gait, diabetic, etc.)

Some indicative technology areas are given below:

- Assistive devices for improving functionality, methods for learning and analyzing computer signals of medical changes.
- Assistive Device for various form of monitoring devices/non-invasive measuring devices/systems [injury preventions, blood parameters for non communicable diseases, biosensors for clinical diagnosis, standing and balance training, excretion defects & related issues].
- Assistive Devices for frequently occurring muscular-skeletal problems

such as Osteoarthritis of knee, ankle joints and the osteoporosis.

- Devices/programmes for fitness of elderly.
- Simple controlled devices for operating household devices, assisted safety measures.

In addition to the above themes, other novel/innovative idea/concept related to enablement and comforts of elderly people in the country are welcome.

Eligibility Criteria:

Projects can be undertaken by academic/R&D institutions, NGO's. Collaborative projects between Institutions, Industry and NGO's working in the area of the elderly are encouraged. Proposals covering areas of social sciences are not under the purview of this programme.

Project proposals (10 hard copies & 1 soft copy) can be submitted in the prescribed format available on the website: www.scienceandsociety-dst.org to the address mentioned below.

HEAD

Science for Equity, Empowerment & Development Division (SEED)
Department of Science & Technology,
Technology Bhawan, New Mehrauli Road, New Delhi-110016
(Tel:011-26590339,
E.mail:headseedglp@gmail.com)

The envelope should be subscribed as "**PROPOSAL UNDER TIE-PROGRAMME**".

The proposals can be submitted throughout the year. Proposals received up to **31.08.2011** can be considered for evaluation in the next PAMC meeting.

For further information contact-

In-charge TIE-Programme,
Science For Equity, Empowerment & Development Division (SEED), Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi-110016
(usha.dixit@nic.in, phone: 011- 26590322).

