

A tradition of uncompromising quality-concern has put the University in good treads and, over the last three years, more than 25 government and non-government funding agencies like AICTE, UGC, CSIR, DST, DIT, DAE, BRNS, DRDO, ISRO, UNICEF have come forward to sponsor about 100 Research Projects. Presently the university is putting a purposeful thrust on collaborative and sponsored research.

In the recent past BESU shared its research accomplishments with IISc (ACRC) Bangalore, IBM Kolkata, TATA Steel, SAIL, Infosys, DRDL, CPRI, TCS etc. In order to enhance the level of intellectual productivity and efficacy, the University has established a "Research and Consultancy Cell (RACC)" of which the principal objective is to facilitate - on behalf of the university, coordination in administration, managerial, liaison, monitoring etc. of sponsored research and consultancy work within the ambit of the administrative framework of the University. This allows research workers to devote more time to research proper without bothering much on not-too-technical but no-less-important other aspects of the projects undertaken.

The University enjoys a reputation for excellence in research and development. Casting a glance at its academic departments, the University can boast of commendable performance of its faculty members, particularly their quality research output which is reflected by a good number of publications in peer-reviewed national and international Journals. A significant number of research projects funded by AICTE, UGC, DST, CSIR, ISRO, DRDO, DIT, Ministry of Steel, Ministry of Defence, BRNS, TATA Steel and international funding agencies like CIDA, USAID, DeIPHE, SANEI etc. bear testimony to the quality of research programmes carried out at the University. A total of 34 new research projects worth nearly Rs 2440 lakh have been sanctioned to the University during the year 2010-11.

In January 2011, a sanction of Rs 942 lakh has been received from the Department of Science and Technology (DST) for undertaking a project on 'Solar Photovoltaic Hub' at BESU. The project has been perceived in an industry-academia partnership mode where institutes like IIT Kharagpur and IACS Jadavpur will collaborate with BESU. DST has sponsored another project to our Centre of Excellence for Green Energy and Sensor Systems (CEGESS) for the development of an Intelligent Recognizer for component analysis of Manhole gas mixture. A topnotch cutting-edge research project on 'Thin Film Silicon Solar Cell and Photo-Voltaic System' has been initiated with patronage from MNRE with an extra-mural grant of Rs 1400 lakh.

A grant of Rs. 164 lakhs has been received from the Department of Information Technology, Government of West Bengal for strengthening research work in the field of VLSI and Nanotechnology Design. In February 2011, a Centre of Excellence in VLSI and Nano Technology Design was inaugurated to carry out research under the scheme. The Centre will work in an effective Industry-Institute partnership made to provide the students with real life industryorientation for VLSI design and embedded systems, where Industry Houses will set up their research and development centre and within the University.

As on date the University is carrying out advance sponsored research projects with a total approved budget of Rs 5480 lakh.

Besides the conventional fields of technology and science, the University in recent years has brought many frontier areas of S&T under the purview of its sponsored research activities. Some of such areas are: Advanced Materials; Bio-Mechanics; Disaster Management; Environmental Remediation; Fuel Cell; Green energy and sensors; Healthcare Science and Technology; Mobile Computing; Nano Science and Technology; Power Electronics; Remote-sensing and GIS; Space Technology; Structural Engineering; Surface Engineering; VLSI and Embedded Systems; Water Resource Management and Cellular Automata.