

Sponsored Research Projects

| Funded By | Title of Project | Amount of Grant | Period | Co-Investigators |
|--------------------------|--|-----------------|-------------|---|
| FAA | The Effects of Freeze – Thaw Cycles on Bonded Joints and Composite Materials | \$150,000 | 1991 – '93 | S.J. Hooper – Principal Investigator |
| FAA | Failure Mechanisms in Composite Structures Manufactured using Contemporary Techniques | \$232,000 | 1992 – '94 | – |
| Wichita State University | Advanced Laser Doppler Techniques for Structural Dynamics | \$4,400 | 1994 | – |
| NASA | Multi-Disciplinary Design and Analysis Graduate Program Development | \$49,000 | 1994 | Aerospace Engg. Dept. of Wichita State University |
| ISRO | Preliminary Design Study of a Hypersonic Air-breathing Flying Test Bed | Rs. 3.8 lakhs | 1994 – '96 | Aerospace Engg. Department of IIT Madras |
| IIT Madras | Combined Fluid – Structural Mechanics Problem Solving using Networked Processors | Rs. 50,000 | 1995 – '97 | – |
| ISRO | Theoretical and Experimental Investigation for Determination of G_C in Composites | Rs. 6.9 lakhs | 1997 – 2002 | – |
| AR & DB | High Performance Adaptive Finite Element Analysis of Composite Plates | Rs. 5.92 lakhs | 2000- '02 | M.S. Sivakumar – Principal Investigator |
| IIT Madras | Intel Pentium based Beowulf Cluster Computer | Rs. 5 lakhs | 2001 – '02 | M.S. Sivakumar |
| IIT Madras | Vacuum Blimp | Rs.1.1 lakhs | 2008 – '09 | (Innovative student projects) |
| IIT Madras | IITM Student Satellite – Engineering Model | Rs. 2 lakhs | 2009 – '11 | (Innovative student projects) |
| MHRD | National Mission on Virtual Laboratories – Pilot phase | Rs. 174 lakhs | 2009 – '12 | M. Singaperumal |
| MHRD | National Mission on Virtual Laboratories – Main phase – Aerospace Structures Lab | Rs. 56.65 lakhs | 2010 – '12 | H.S.N. Murthy |
| MHRD | National Mission on Virtual Laboratories – Main phase | Rs. 132 lakhs | 2010 – '12 | (IITM Co-ordinator) |
| AR & DB | Investigation of Damage Mechanisms in Composite Materials under Cyclic Loading | Rs. 67.1 lakhs | 2012 – '16 | H.S.N. Murthy – Principal Investigator |
| DST | (FIST) Improvement of S & T Infrastructure in Universities and Higher Education Institutions | Rs. 242 lakhs | 2018 – '23 | as HoD, with Manikandan Mathur |

Consultancy Projects

| Organization | Title of Project | Amount of Grant | Period | Co-Investigators |
|---------------------------|--|-----------------|-------------|------------------|
| Rolls Royce, Atlanta | Analysis of Vibration Characteristics of Jet Engine Components | \$10,000 | 1988 – '91 | E.A. Armanios |
| L & T McNeil, Chennai | Stress Analysis of Shrink Fit | Rs. 25,000 | 1994 – '96 | G. Subramanian |
| L & T McNeil, Chennai | Stress Analysis of Tire Moulding Press | Rs. 1,00,000 | 1995 – '98 | G. Subramanian |
| Cempaka College, Malaysia | I.T. Curriculum and Infrastructure | Rs. 65,000 | 1998 – '99 | R. Dheenadayalu |
| Various | Y2K Hardware Adapter Certification | Rs. 15,000 | 1999 – 2000 | R. Dheenadayalu |
| BHEL, Ranipet | Real Time Linux Driver Development | Rs. 19,000 | 2000 – '02 | – |

Continuing Education Projects

| Organization | Title of Project | Value | Period | Co-Investigators |
|---------------------------------|---|-----------------|----------|---------------------------------------|
| North Carolina State University | Development of Web and On-line Course Content for Mechatronics Design | \$4,600 | 2002 | – |
| HAL, Bangalore | Training Program in Aircraft Engineering and Manufacturing Technology | Rs. 11.74 lakhs | 2005-'06 | M.S.Shunmugam (Principal Coordinator) |
| HAL, Bangalore | Training Program in Aircraft Engineering and Manufacturing Technology | Rs. 13.43 lakhs | 2006-'07 | L.Vijayaraghavan |
| HAL, Bangalore | Training Program in Aircraft Engineering and Manufacturing Technology | Rs. 13.71 lakhs | 2006-'07 | L.Vijayaraghavan |
| HAL, Bangalore | Training Program in Aircraft Engineering and Manufacturing Technology | Rs. 13.54 lakhs | 2007-'08 | L.Vijayaraghavan |
| HAL, Bangalore | Training Program in Aircraft Engineering and Manufacturing Technology | Rs. 17.93 lakhs | 2007-'08 | L.Vijayaraghavan |
| HAL, Bangalore | HAL Trainees (Technical) Program | Rs. 18 lakhs | 2018 | H.S.N. Murthy |