

Major Research Initiatives

An MoU has been signed with DRDO for the establishment of a Centre of Propulsion Technology (CoPT) jointly at IIT Bombay and IIT Madras to pursue directed research towards developing advanced technologies to meet future defence requirements.

A Centre of Excellence in Iron and Steel Technology (COEXIST) has been funded by the Ministry of Steel to carry out research on modelling, casting, welding, forming and surface engineering of high strength automotive steels in collaboration with automotive industries.

An Advanced Manufacturing Technology Development Centre (AMTDC) has been established at IITM Research Park will carry out translational research in advanced machine tool and manufacturing technologies to build a smart manufacturing technology base in India. This has been possible with the support of the Ministry of Heavy Industries and Public Enterprises, Government of India and six machine-tool industries,

Center of Excellence for Wireless Technology (CEWiT) of IIT Madras is spearheading a multi-institutional effort to develop 5G wireless technologies and contribute to global standardization efforts. It is an active participant in the newly set up Telecom Standards Development Society of India (TSDSI).

A Centre for Railway Research (CRR) will be set up at IITM for research collaboration and advancement of technologies for smart, efficient, comfortable and safe rail transport systems. It will also carry out research related to structural health monitoring of railway infrastructure.

A Centre for Battery Engineering and Electric Vehicles has been established at IIT Madras, which aims to transform mobility in our country.