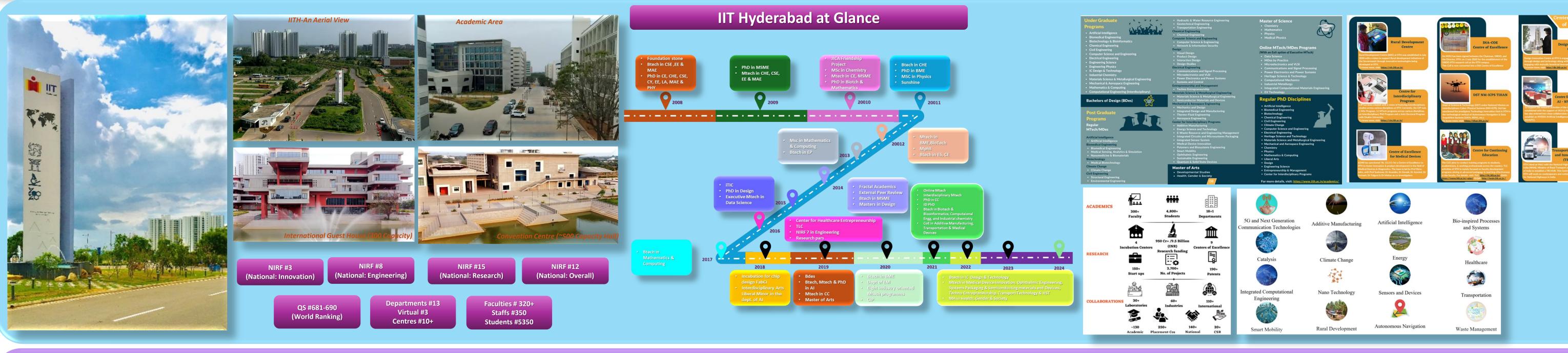
MAE-IC 2024

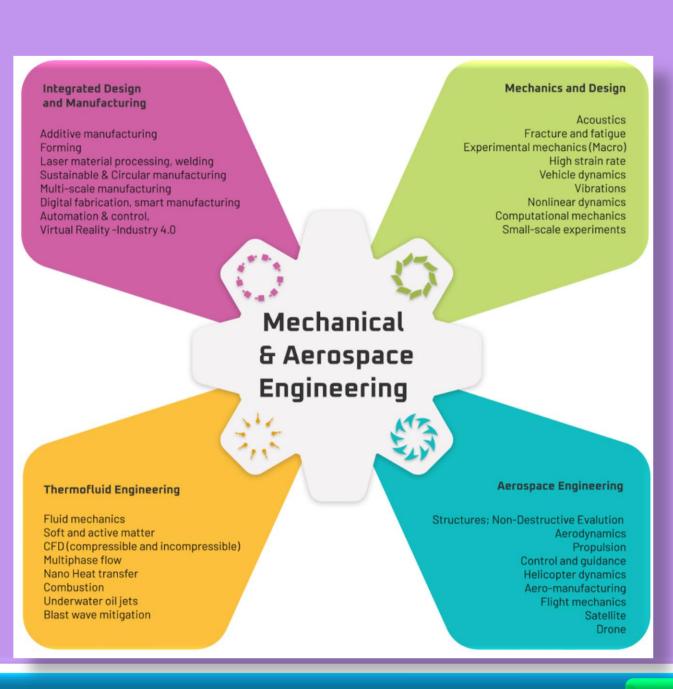
MAE-Industry Connect 2024

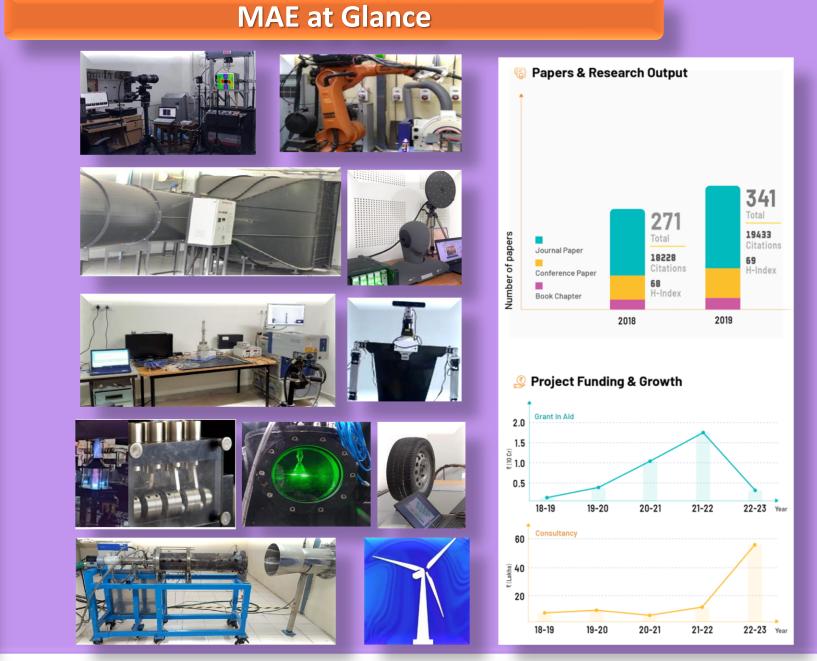






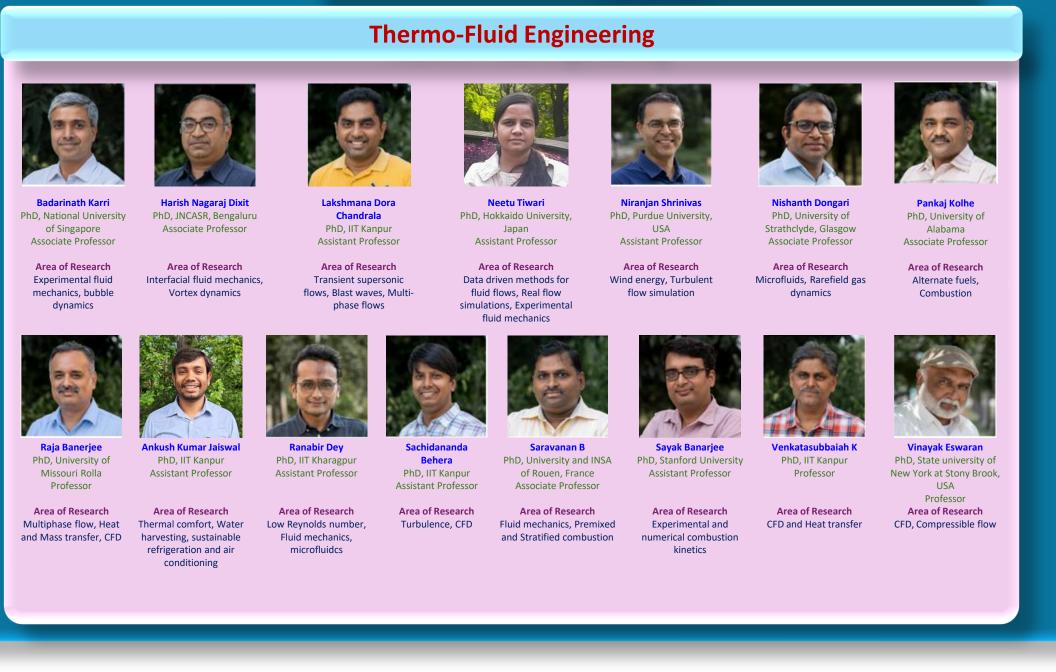












Combustion, Emission and Energy

Combustion diagnostics lab

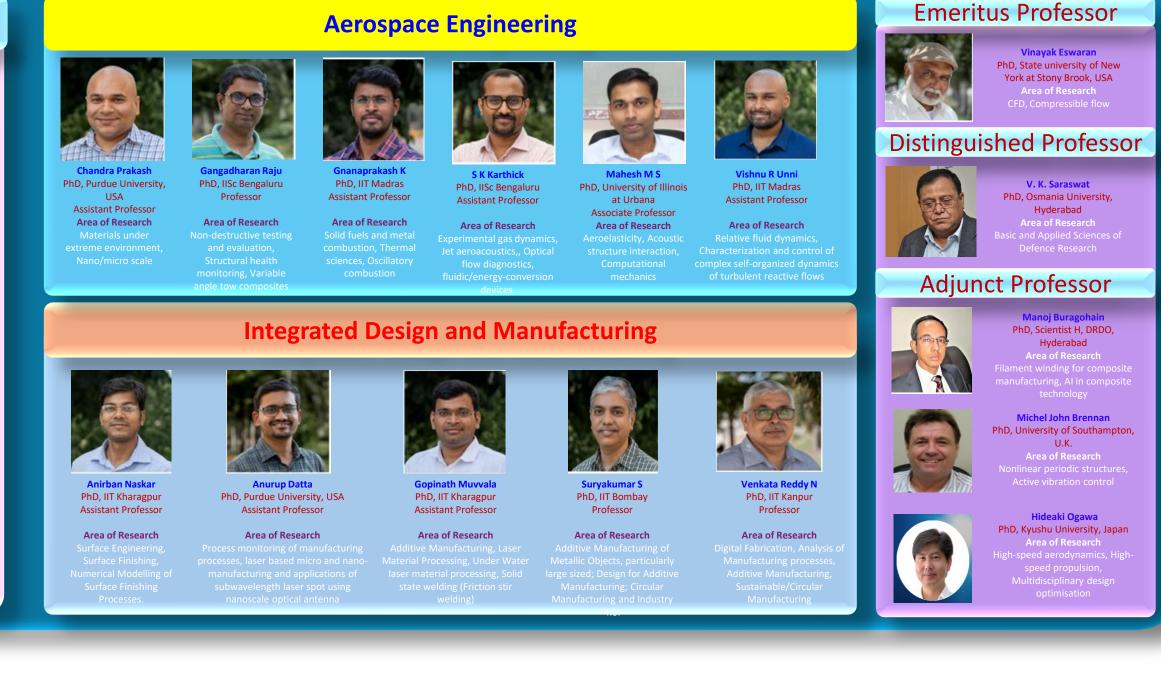
Powder bed fusion machine

Vertical milling machine

Pulse generator

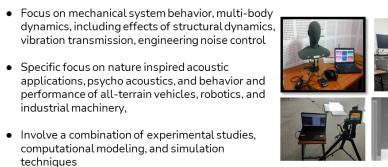
Burnishing set-up

Faculties



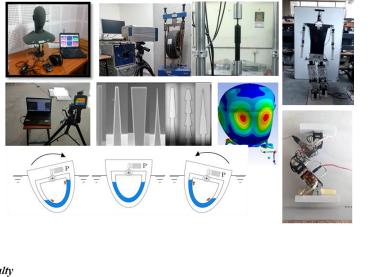


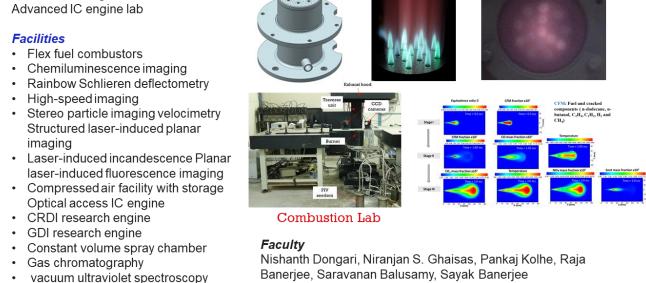




Dynamics, Vibrations, and Acoustics

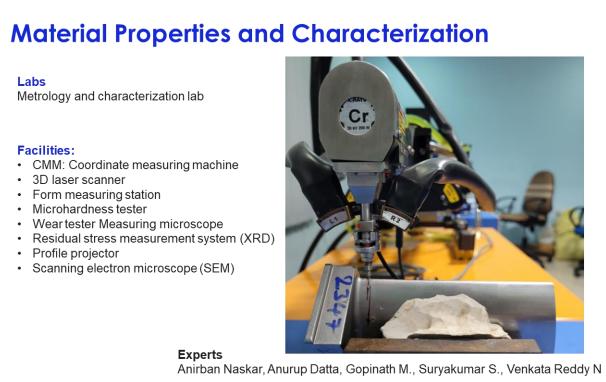
techniques List of facilities Acoustic camera Advanced sound level meter Binaural dummy headset • Experimental modal analysis Scanning vibrometer (Polytec make) Micro analyzer (Polytec) Data acquisition system (m+p) Tire scan system (Tekscan) Ashok Kumar Pandey, Chandrika Prakash Vyasarayani, Prasanth Makerbot (3d Printer) Kumar R, Venkatesham B. Impedance Tube

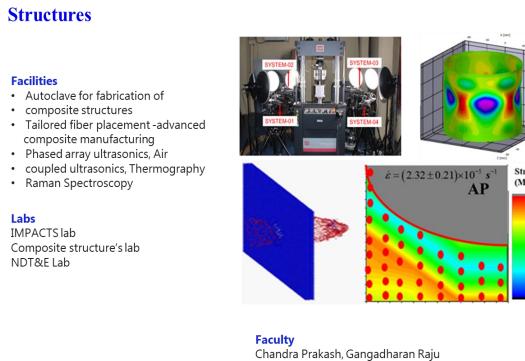




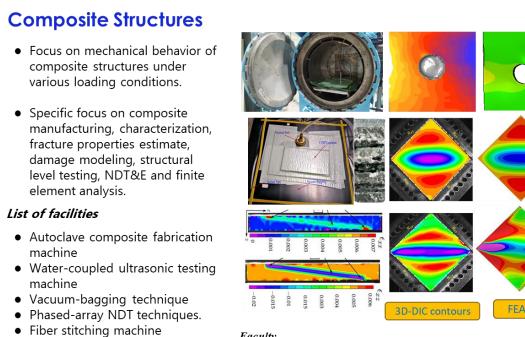
Research facilities

Metrology and characterization lab CMM: Coordinate measuring machine · 3D laser scanner Form measuring station Microhardness tester Wear tester Measuring microscope · Residual stress measurement system (XRD) Profile projector Scanning electron microscope (SEM)





Prabhat Kumar, Ramji Manoharan, Safvan Palathingal, Nizamuddin Khaderi Syed, Viswanath Chinthapenta.



List of facilities

ABAQUS ANSYS

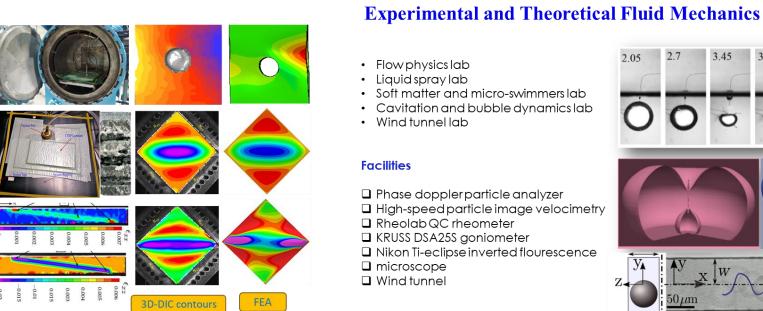
Actran

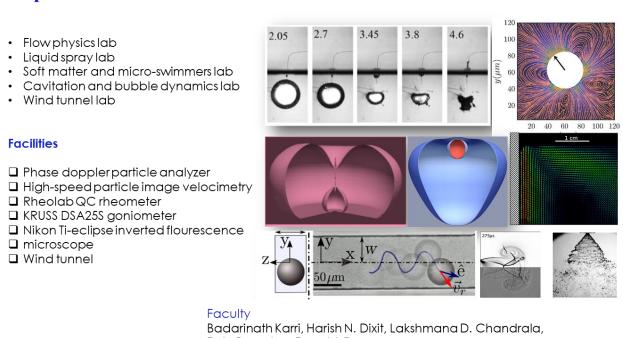
Romax

High-end workstations

COMSOL Multiphysics

Altair Hypermesh





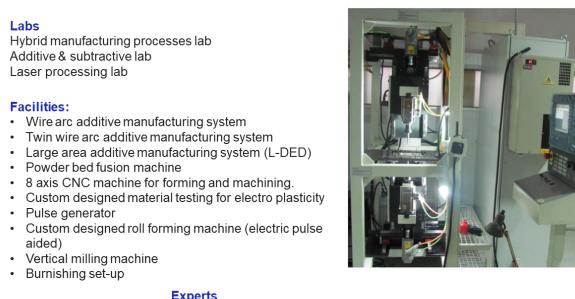
Computer aided engineering

FacilitiesParam Seva (HPC facility)

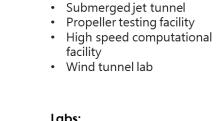
ANSYS

COMSOLMATLAB



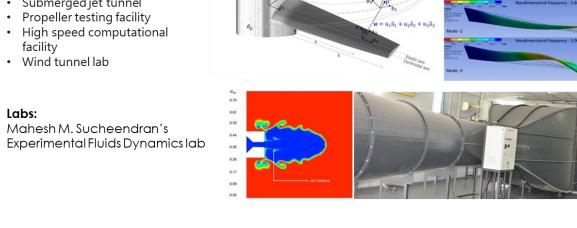


Anirban Naskar, Anurup Datta, Gopinath M., Suryakumar S., Venkata Reddy N

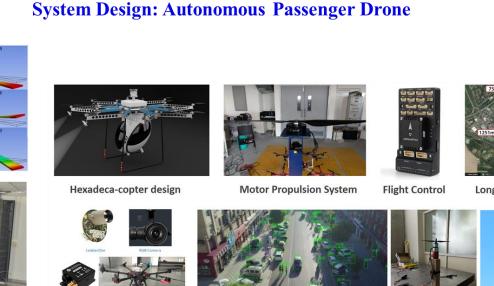


Mahesh M. Sucheendran's

Aerodynamics



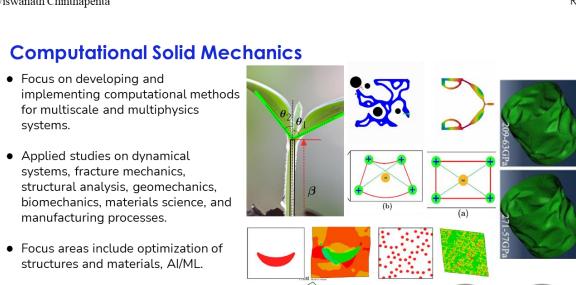
Mahesh M S, Lakshmana D. Chandrala, Vishnu R Unni

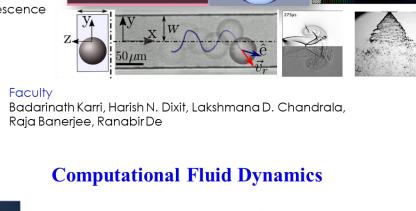


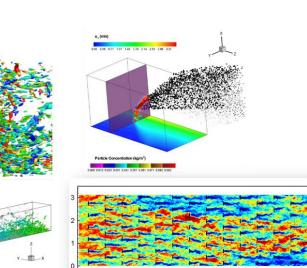
Sensor Fusion & Validation Object Detection & obstacle avoidance Flight Mechanics Drone Prototype

Modular Design: Platform, Cabin, Sensing and Navigation Unit

Ramji Manoharan, Sai Sidhardh, Syed Nizamuddin Khaderi, Viswanath Chinthapenta



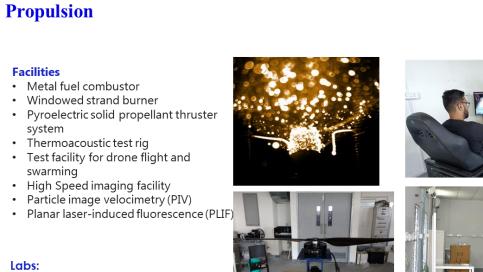






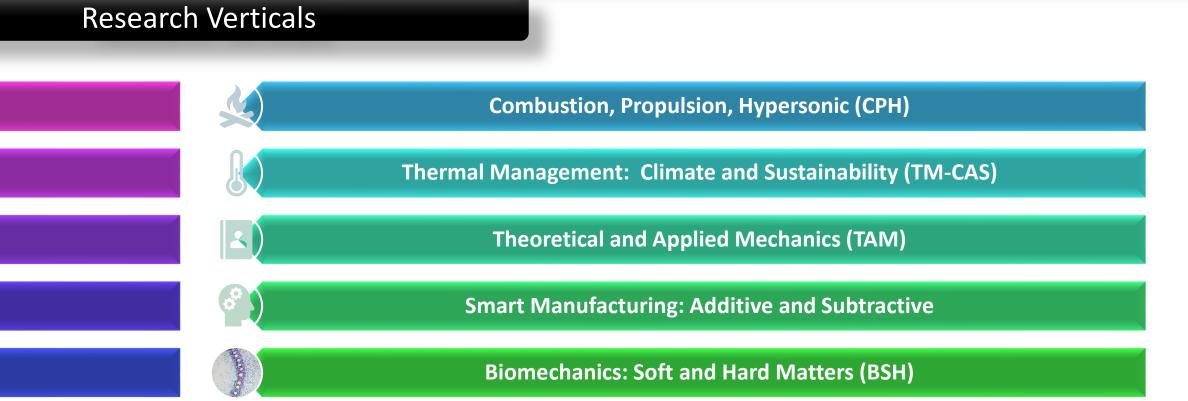
Anirban Naskar, Anurup Datta, Gopinath M., Suryakumar S., Venkata Reddy N





Energetics and combustion lab Dynamics and control lab (DysCo Faculty
K. Gnanaprakash, Vishnu R. Unni.

Harish N. Dixit, Nishanth Dongari, Niranjan S. Ghaisas, Raja Banerjee, Sachidananda Behera, Sayak Banerjee, V. Eswaran, Venkatasubbaiah K



Department Technology Development

Contact information **Ashok Kumar Pandey** Professor Room # 405, Academic Block C Department of Mechanical & Aerospace Engineering Indian Institute of Technology Hyderabad Kandi, Sangareddy, Telangana, INDIA - 502284 eMail: head@mae.iith.ac.in, Phone: (040) 2301 6656

Robotics: Multibody and Flexible (RMF)

Automation, Inspection and Intelligence (AII)

Mobility: Land, Air and Water (MLAW)

Experimental Mechanics (EM)

Computational Mechanics (FEM)

Computational Mechanics (CFD)