

Texas A&M University Core Facilities, Division of Research

Core facilities are an essential part of Texas A&M University's research infrastructure providing critical resources for groundbreaking research. Ensuring more efficient resource utilization, shared research facilities are a cost-effective way to leverage research expertise and specialized instruments. Core facilities provide dedicated space and specialized scientific equipment. Additionally, staff scientists provide field-specific expertise, research services, technical support, and training of graduate students and research staff. Core facilities primarily serve Texas A&M researchers, though many facilities welcome outside users from the broader scientific and industrial community. Texas A&M offers more than 50 core facilities that can be generally categorized into the five thematic areas described below:

Microscopy and Imaging

Cores in this area focus on advanced imaging techniques including light microscopy, electron microscopy, and other modalities spanning the spectrum of scale from visualization of proteins to whole animal imaging.

- •College of Dentistry Research Core-Dallas, TX
- •IBT Pre-Clinical Imaging Core-Houston, TX
- •IBT-Center for Advanced Imaging, Houston, TX
- Image Analysis Laboratoryveterinary Medicine & Biomedical Sciences
- •Integrated Microscopy and Imaging Laboratory
- Microscopy and Imaging Center

Data Informatics and Computation

Cores in this area focus on empowering research and discoveries by providing access to computational hardware, software, and application expertise across the spectrum of data sciences.

- Crop Genome Editing Laboratory
- Genomics and Bioinformatics Service
- •IBT Rigor & Reproducibility Core
- Laboratory for Molecular Simulation
- •Smart Grid Control Room Lab
- •TIGSS Bioinformatics Core

Integrated Biological and Medical Translational

Cores in this area focus on advanced equipment and techniques associated with human, animal, and plant biological and medical research.

- AgriGenomics Laboratory
- Animal Genetics Laboratory
- College of Medicine Cell Analysis Facility-Texas A&M Health Science Center
- Comparative Medicine Program
- Flow Cytometry Facility-Veterinary Medicine & Biomedical Sciences
- Human Clinical Research Facility
- IBT Antibody & Biopharmaceuticals Core-Houston, TX
 TX
- IBT Flow Cytometry and Cell Sorting Core-Houston, TX
- IBT High Throughput Research and Screening Center-Houston, TX
- IBT Protein Production, Characterization, and Molecular Interaction Core-Houston, TX
- Integrated Metabolomics Analysis Core
- Molecular Cytogenetics Laboratory
- Multi-Crop Transformation Facility
- Systems and Synthetic Biology Innovations Hub
- Texas A&M Institute for Genomic Medicine
- TIGSS: Experimental Genomics Core

Materials and Fabrication

Core facilities in this area focus on synthesis and fabrication of different materials, including polymers, metals, ceramics and composites and on characterization of their structural and physical properties using a wide range of different characterization methods.

- Aggiefab Nanofabrication Facility
- Biomedical Engineering Shared Laboratories
- IODP XRF Core Scanning Facility
- Materials Characterization Facility
- Materials Development and Characterization Center
- National Center for Therapeutics Manufacturing
- National Corrosion and Materials Reliability
- Soft Matter Facility
- SQUID Magnetometer
- X-Ray Diffraction Laboratory

Chemical Science Technologies

Cores in this area focus on state-of-the art sample collection and chemical analysis using resources including a mobile environmental sampling van, high volume sizeresolved particle samplers, mass spectroscopy, Raman spectroscopy, and other analytical techniques.

- Biomolecular NMR Laboratory
- Center for Atmospheric
 Chemistry and the Environment
- Chemistry Mass Spectrometry Facility
- Elemental Analysis Laboratory
- Geochemical and
 Environmental Research Group
- ILSB Mass Spectrometry Lab (ILSB-MSL)
- NMR/ESR Facility of the Chemistry Department
- Nuclear Engineering and Science Center
- Radiation Effects Facility
- Stable Isotope Geosciences Facility

Contact Us

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