

Research Theme 5 SPACE EXPLORATION



The Texas A&M University *research enterprise* encompasses all elements that come together to address critical research needs (basic, applied or translational) including all stakeholders, resources and infrastructure. Delivering outcomes and results that promote knowledge growth and solve or prevent challenges for the public good are the basis for the research enterprise strategic plan.



SUB-THEMES

▶ HUMAN SPACE FLIGHT

Examples of Research Areas of Strength/Opportunity within Texas A&M

Human factors and behavioral performance, human health countermeasures, space radiation, exploration medical capability, research operations and integration, food/ nutrition, space humanities

Alignment with National and Texas Legislative Priorities

NASA, DOC, AFOSR, CHIPS ACTS, NATIONAL LABS

Texas A&M Capacity (Initial Mapping of Alignment with Colleges, Schools, Agencies and Centers/Institutes/Core Facilities)

HSC (SoM, SoN, SoP, SPH), TEES (COE), CAS, AGLR (COALS), SEHD, PVFA, BUSH

▶ SPACE ENGINEERING AND CONSTRUCTION

Examples of Research Areas of Strength/Opportunity within Texas A&M

Aerospace power and energy storage; robotics, sensors, and autonomous systems; robotics space flight; materials and manufacturing; space food systems

Alignment with National and Texas Legislative Priorities

DOD, NASA, DOE, DARPA, AFOSR, CHIPS ACT, SBIR/STTR, MULTI-AGENCY R&D

Texas A&M Capacity (Initial Mapping of Alignment with Colleges, Schools, Agencies and Centers/Institutes/Core Facilities)

TEES (COE), CAS, SOA, PVFA, AGLR (COALS), CI

▶ EARTH AND PLANETARY SCIENCES

Examples of Research Areas of Strength/Opportunity within Texas A&M

Earth science, astrophysics, astrobiology, planetary science, exoplanets, space domain awareness, remote communications, asteroid detection and deflection

Alignment with National and Texas Legislative Priorities

NASA, DOC, DOD, AFOSR, CHIPS ACT, NATIONAL SECURITY, NATIONAL LABS

Texas A&M Capacity (Initial Mapping of Alignment with Colleges, Schools, Agencies and Centers/Institutes/Core Facilities)

CAS, TEES (COE), LAW, IQSE, CI