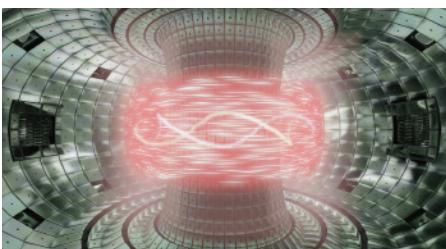


Research Theme 6 SUSTAINABILITY and ENVIRONMENT

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

▶ CLIMATE RESILIENCE AND MITIGATION

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

Climate resilience/mitigation, coastal resiliency, blue economy, carbon capture, environmental ethics/humanities and policy

Alignment with National and Texas Legislative Priorities

NSF, DOE, USDA, DOC, CHIPS ACT, NATIONAL SECURITY, NATIONAL LABS, NEH, MULTI-AGENCY R&D, USAID, UN

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

CAS, AGLR (COALS, VMBS), TEES (COE), SOA, SEHD, BUSH, MAYS, HSC (SPH), Galveston, Qatar, TDEM, PVFA, TTI, TSG, TIO, NRI, EI, TCCS, ISTPP, NBI, TWRI

▶ ENERGY TRANSITION/CLEAN ENERGY

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

Biomass/renewables, nuclear reactors, hydrogen economy, smart grid/infrastructure of the future, electrification, decarbonization, energy storage, critical materials, simulations of scenarios of energy of the future, response, training and policy

Alignment with National and Texas Legislative Priorities

NSF, DOE, USDA, DOC, DOT, AFOSR, CHIPS ACT, NATIONAL SECURITY, NATIONAL LABS, ARPA-E, SBIR/STTR, MULTI-AGENCY R&D, UN, TX

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

TEES (COE), CAS, AGLR (COALS), MAYS, PVFA, SEHD, SOA, (CHUD, CHSD) BUSH, LAW, TEEX, TTI, Qatar, EI, CIR, NCEBR, IQSE, CI

▶ FOOD-ENERGY-WATER (FEW) NEXUS

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

Development and application of integrated tools/platforms to inform the decision-making process for FEW resilience, assessment of the sustainability of FEW systems, water quality decision support system, FEW and health, food security, clean water, response, training and policy

Alignment with National and Texas Legislative Priorities

NSF, DOE, USDA, NIH, CHIPS ACT, NATIONAL LABS, NATIONAL SECURITY, USAID, UN, TX

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

CAS, AGLR (COALS), TEES (COE), AGEX, SEHD, BUSH, SOA, MAYS, PVFA, HSC (SPH), TEEX, Galveston, TSG, TWRI, EI, NBI