MITTIC Fall 2023 / Spring 2024
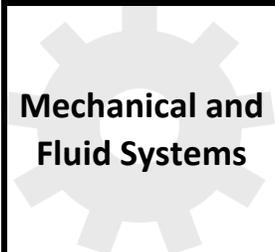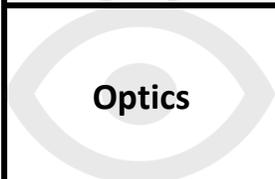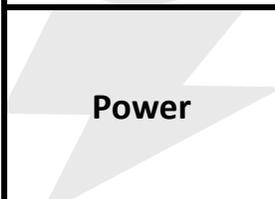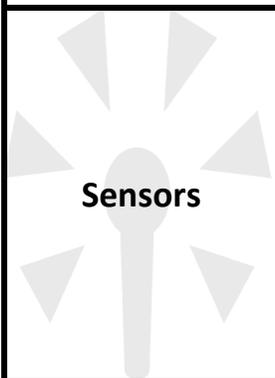
Sample NASA Intellectual Property (IP) List

**Important! The 45 selections of NASA Intellectual Property in this document include extra details and webinars that may assist a team with development of their concept. However, a team may use any IP from the NASA patent portfolio as the basis for their business/proposal.

Aerospace	FACET: Future Air Traffic Management Concepts Evaluation Tool
	Method and System for Air Traffic Rerouting for Air-space Constraint Resolution - NASCENT
	Flight-Path Angles
	Flight Awareness Collaboration Tool (FACT)
	Unmanned Aerial Systems (UAS) Traffic Management
	Artificial Immune System-Based Approach For Airborne Vehicle Maneuvering
	Green aviation - improved aerodynamic efficiency and less fuel burn
	Multi-Objective Flight Control Optimization Framework
	Co-Optimization of Blunt Body Shapes for Moving Vehicles
	Aeroelastic Wing Shaping
	Multirotor Aircraft Noise Reduction
	AirBOS-SR: Visualizing Supersonic Shock Waves with Advanced Imaging Techniques
Communication	Soft Decision Analyzer
	Microwave Power Combiner
Environment	Flame Piloted Vortex (SCWO-FPV) Reactor
	Tool for Rapid Identification of TCE in Plants
Health	Methylotrophi Microorganisms Expressing Soluble Methane Convention Monoxygenase Proteins
	Rapid Nucleic Acid Isolation Method and Fluid Handling Devices
	Microorganism Cultivation Platform for Human Life Support
	Nanosensor Array for Medical Diagnoses
Information Tech and Software	Traffic Aware Planner
Manufacturing	Pyramid Image Quality Indicator
	Calibration System for Automated Fiber Placement
	Internal Friction Reduction (IFR) Tool
	Laser Wire Direct Closeout (LWDC)
	System for In-situ Defect Detection in Composites During Cure
	Durable Redundant Joint (DRJ)
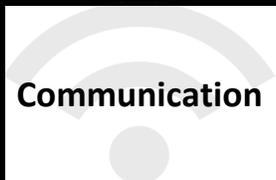
Materials and Coatings	Silicon Carbide Fiber Tows Carbon Fiber-Carbon Nanotube Yarn Hybrid Reinforcement Multilayered Fire Protection System
Mechanical and Fluid Systems	Method to Reduce Stabilization Time for Shape Memory Alloys Compact Active Vibration Control System Spacecraft Atmosphere Carbon Dioxide (CO_2) Capture via Deposition
Optics	Active Pointing Monitor for a 2-axis Optical Control System
Power	Li-ion Cell Calorimeter Relaxor Piezoelectric Single Crystal Multilayer Stacks for Energy Harvesting Transducers
Robotics	Multi-Parameter Aerosol Scattering Sensor Robotic Assembly of Photovoltaic Arrays Autonomous Crash Management System (CMS)
Sensors	Multidimensional Damage Detection System Luminescence-Based Temperature Mapping and Sensing Systems Multivariate Monitoring for Human Operator and Machine Teaming Universal Wireless Flight Sensor Systems Floating Ultrasonic System Electric Field Imaging System