

Line Title	Committee Recommended
Air Force	
1 DEFENSE RESEARCH SCIENCES	
Chabot Space and Science Center	1,000
Process Integrated Mechanism for Human-Computer Collaboration and Coordination	1,000
Fully-Integrated Solar-Powered Interior Lighting Technology	1,000
Nanotechnology based biosensors and bio-threat detectors	2,500
Hybrid Materials for Thermal Management in Thin Films and Bulk Composites	2,000
4 MEDICAL DEVELOPMENT	
Light Emitting Diode (LED) Wound Healing of Oral and Cutaneous Lesions	1,500
Tricorder Detector	1,500
National Center for Integrated Civilian-Military Domestic Disaster Medical Response	2,500
Comprehensive Clinical Phenotyping and Genetic Mapping for the Discovery of Autism Susceptibility Gene	1,500
Frank R. Seaver Science and Engineering Complex	1,000
5 MATERIALS	
Chrome Free Environmentally Friendly Corrosion Protection for Aircraft	2,000
Free Electron Laser Capabilities for Aerospace Microfabrication	2,000
Intelligent Carbon Nano-tube Based Computer Devices for Space Applications	6,000
Aircraft Active Corrosion Protective Compounds	1,000
Accelerated Insertion of Advanced Materials and Certification for Military Aircraft Structure Material	1,500
Blast Resistant Concrete Products	2,000
Large Area, APVT Materials Development for High Power Devices	2,000
Plasma-Sphere Array for Flexible Electronics	2,000
Advanced Carbon Fiber Research and Testing Initiative	3,500
Institute for Science and Engineering Simulative (ISES)	2,500
Science for Sustainment initiative to Improve Mission	2,000
ONAMI Safer Nanomaterials and Nanomanufacturing	2,000
Pennsylvania Nanomaterials Commercialization Center	2,000
High Temperature Aerogel Materials for Global Strike Vehicles	2,000
Polymer Nanocomposites for Energy Storage and Pulsed Power	1,000
Carbon Nano-Materials for Advanced Aerospace Applications, AQW Rice University	2,000
University of Houston Consortium for Nanomaterials for Aerospace Commerce and Technology (CONTACT)	3,000
Gallium Nitride (GaN) RF Power Technology	2,000
Life Shield Blast Resistant Panels	1,000
6 AEROSPACE VEHICLE TECHNOLOGIES	
Cognitive UAV	1,000
Advanced Aerospace Heat Exchangers	1,000

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Air Force	
Modeling and Simulation for Rapid Integration and Technology Evaluation	1,000
Advancement of Intelligent Aerospace Systems (AIAS) for the U.S, Air Force	2,000
7 HUMAN EFFECTIVENESS APPLIED RESEARCH	
Warfighter Pocket XP-Next Gen	2,000
Imaging Tools for Human Performance Enhancement and Diagnostics	2,000
Ubiquitous RFID Chem/Bio Detection	1,000
8 AEROSPACE PROPULSION	
Development & Testing of Advanced Paraffin-based Hybrid Rockets for Space Applications	2,000
Center for Solar Electricity and Hydrogen	3,000
LOX/Methane Cooled Upper Stage Rocket Engine	1,000
Modified F-22 Maintenance-Free Nickel Cadmium Aircraft Batteries for the F-16	1,800
Advanced Vehicle and Propulsion Center	2,000
Integrated Electrical Starter/Generator	2,500
Hydrocarbon Boost Technology Demonstrator	1,500
THEMA - Thermal and Energy Management for Aerospace	3,500
WASH Oxygen Sensor and Cell Level Battery Controller	1,500
Active Combustion Control System for Military Aircraft	3,500
9 AEROSPACE SENSORS	
Optical Maximum Entropy Verification (OMEV)	1,000
Sensor Fusion	2,000
OPAL (Optically Pumped Atomic Laser for Defense)	4,000
Center for Advanced Sensor and Communications Antennas	1,000
Low Voltage, Wideband Electro-Optic Polymer Modulator	3,000
10 MULTI-DISCIPLINARY SPACE TECHNOLOGY	
Integrated Propulsion Analysis Tool (IPAT)	2,000
11 SPACE TECHNOLOGY	
Advanced Modular Avionics for Operationally Responsive Space Use	2,000
Multicontinuum Technology for Space Structures	2,000
Mission Design and Analysis Tool	500
Shielding Rocket Payloads	350
12 CONVENTIONAL MUNITIONS	
Advanced Nanotube Micro-Munition Weapon Technology Initiative	1,500
13 DIRECTED ENERGY TECHNOLOGY	
Ceramics for Next-Generation Tactical Laser Systems	3,000
14 COMMAND CONTROL AND COMMUNICATIONS	
Compact Laser Terminal for Airborne Network Centric Warfare	2,500
Compact Coherent LIDAR Transceiver System	2,000
Adaptive Optics Lasercom	2,000
Cyber Attack Mitigation and Exploitation Laboratory II (CAMEL 11)	1,900
20 ADVANCED MATERIALS FOR WEAPON SYSTEMS	

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Air Force	
Continuous Integrated Vehicle Health Monitoring System	1,500
Encapsulated Ballistic Protection System (EBPS)	1,000
Coated Field repair (2K Gun)	1,000
National Aerospace Leadership Initiative	20,000
EMI Grid Fabrication Technology	2,000
21 ADVANCED AEROSPACE SENSORS	
TacNode-Tactical Airborne Communications Node	4,000
Active Unmanned Air Vehicle (UAV) Phenomenology (AUP) & ART Technology Transition	4,000
Moving Target Strike	2,000
22 AEROSPACE TECHNOLOGY DEVELOPMENT/DEMONSTRATION	
Advance Aerospace Titanium Structures initiative	2,000
Big Antennas Small Structures Efficient Tactical (BASSET) UAV	1,000
23 AEROSPACE PROPULSION AND POWER TECHNOLOGY	
FRESH (Field Renewable Energy System Hybrids) Li Ion Battery Program	1,000
Versatile Affordable Advanced Turbine Engine (VAATE) Small Turbofan (STF)	4,500
Ceramic Matrix Composite (CMC) Airfoil Capability Enhancements	1,000
Texas Research Institute for Environmental Studies	1,500
24 CREW SYSTEMS AND PERSONNEL PROTECTION TECHNOLOGY	
Variable Transmittance Visor	1,000
Virtual Medical Trainer	3,000
Battlefield Automatic Life Status Monitor (BALSM)	2,000
Low Cost/Improved Performance for Helmet Display and Life Support Technologies	2,700
25 ELECTRONIC COMBAT TECHNOLOGY	
BLADES (Real-Time Battlefield Laser Detection System)	2,000
Innovative Polymeric Materials for Three-Dimensional (3-D) Microdevice Construction	1,000
28 ADVANCED SPACECRAFT TECHNOLOGY	
Small Low Cost Reconnaissance Spacecraft	2,300
Micromachined Switches for Next Generation Modular Satellites	3,000
Microsatellite Serial Manufacturing	2,000
Satellite Coherent Optical Receiver (SCORE)	2,500
Space Situational Awareness	1,500
Systematic Approach to Radiation Hardened Electronics (SHARE)	2,000
Intelligent Free Space Optical Satellite Communications Node	1,000
Radially Segmented Launch Vehicle (RSLV) Risk Reduction Program	2,000
Multi-mission Advanced Sensor System (MASS)	3,000
30 MAUI SPACE SURVEILLANCE SYSTEM (MSSS)	
High Accuracy Network Determination System (HANDS)	2,000
32 CONVENTIONAL WEAPONS TECHNOLOGY	

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Air Force	
Body Armor Improved Ballistic Protection	2,000
34 C31 ADVANCED DEVELOPMENT	
Interoperability Network to Fuse and Exchange Real- Time Information	1,000
Collaboration Gateway	1,000
40 INTELLIGENCE ADVANCED DEVELOPMENT	
Multilingual Text Mining Platform for intelligence Analysts	1,000
41 PHYSICAL SECURITY EQUIPMENT	
Tactical Automated Security System (TASS), Advanced Communications Module (ACM)	2,000
45 SPACE CONTROL TECHNOLOGY	
Self Aware - Space Situational Awareness	25,000
51 INTERCONTINENTAL BALLISTIC MISSILE	
Conventional Strike Missiles Capability Demonstration	6,000
54 POLLUTION PREVENTION (DEMONSTRATION/VALIDATION)	
Assessment of Alternative Enemy for Aircraft Ground Equipment (AGE)	1,000
Transforming Waste Plastics Into Alternative Fuels	1,000
Transformation and Modernization of Air Force Weapons Systems	3,000
Microcomposite Coatings for Chrome Replacement	1,000
60 COMMON AERO VEHICLE (CAV)	
Ballistic Missile Technology	5,000
61 OPERATIONALLY RESPONSIVE SPACE	
Operationally Responsive Space	20,000
70 B-2 ADVANCED TECHNOLOGY BOMBER	
Small Diameter Bomb	7,200
72 ELECTRONIC WARFARE DEVELOPMENT	
Rapid Replacement of Mission Critical Logistics Electronic Components	1,500
77 SPACE SITUATION AWARENESS SYSTEMS	
Space Fence	9,800
79 SPACE BASED INFRARED SYSTEM (SBIRS) HIGH EMD	
MCSB Upgrade	27,600
82 ARMAMENT/ORDNANCE DEVELOPMENT	
1-1000 Warhead Technology Demonstration	1,500
84 AGILE COMBAT SUPPORT	
Improvised Ordnance Detonator -Advanced Development	2,000
86 LIFE SUPPORT SYSTEMS	
ACES II Ejection Seat Improvement	1,000
88 INTEGRATED COMMAND & CONTROL APPLICATIONS (IC2A)	
Program Engineering Interoperability Framework	2,000
Enterprise Services for Reach Back Capabilities (ESRBC)	3,000
MEDSTARS Integration with Global Combat Support System	2,000
Airborne Web Services (AWS) Spiral 5	1,000

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Air Force	
Distributed Mission Interoperability Toolkit (DMIT)	5,000
91 JOINT STRIKE FIGHTER (JSF)	
Alternate engine development	240,000
Production Initiatives	100,000
Small Business Technology Insertion Program	25,000
94 RDT&E FOR AGING AIRCRAFT	
Enhanced Smart Triple Ejector Rack	2,000
105 MAJOR T&E INVESTMENT	
FPS-16 Radar Mobilization Upgrade	2,000
111 ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	
Ballistic Missile Range Safety Technology	5,000
113 FACILITIES RESTORATION & MODERNIZATION - TEST & EVALUATION	
Internal Base Facility Energy Independence - Wind/Turbine	1,000
114 FACILITIES SUSTAINMENT - TEST AND EVALUATION SUPPORT	
Base Facility Energy Independence	4,000
120 B-52 SQUADRONS	
B-52 CCJ	5,000
Common Reconfigurable Advanced Thermal Management System	500
131 F-15E SQUADRONS	
F-15 AN/ALR-56C RWR Digital Receiver Upgrade	7,000
AESA Development and Demonstration	6,000
150 EVALUATION AND ANALYSIS PROGRAM	
Compound Zoom for Airborne Reconnaissance (CZAR)	2,000
157 JOINT SURVEILLANCE AND TARGET ATTACK RADAR SYSTEM	
SYERS Demonstration	16,000
Joint STARS Electro -Optical Adjunct	1,000
160 USAF MODELING AND SIMULATION	
MAICE	2,000
174 INFORMATION SYSTEMS SECURITY PROGRAM	
Cyber Security Defend and Attack Exercise	3,000
175 ITS GLOBAL COMBAT SUPPORT SYSTEM	
Technical Order Optimization	1,500
176 GLOBAL COMMAND AND CONTROL SYSTEM	
Carbon Nanotube Enhanced Power Sources for Space	1,500
Command & Control Service Level Management (C2SLM) program	10,000
185 WEATHER SERVICE	
TAMDAR System Integration and Performance Evaluation on Unmanned Aerial Systems	1,000
186 AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM	
Terminal Radar Approach Control (TRACON) Quick Connect Panel and Switchgear	720

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Air Force	
194 NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT)	
GPS User Equipment	63,200
203 MANNED RECONNAISSANCE SYSTEMS	
Rivet Joint Network Interface Growth	3,000
204 DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	
Advanced Architecture Designs Supporting U.S. Army Net Centric Warfare (AADSUNW)	1,000
205 PREDATOR UAV (JMIP)	
Integrator Unmanned Aircraft System (UAS) Advanced Concept Development	3,500
217 C-130 AIRLIFT SQUADRON	
Air Force C-130 Propeller De-icing System Safety Upgrade Using Metal Fiber Brushes	1,000
C-130 AIRCAT CBMt	3,000
218 C-5 AIRLIFT SQUADRONS	
Inductive Thermography Systems Inspections	2,000
231 INDUSTRIAL PREPAREDNESS	
Technology Insertion Demonstration and Evaluation (TIDE)	1,500
Laser Peening for Friction Stir Welded (FSW) Aerospace Structures	1,000
Production of Nanocomposites for Aerospace Applications	2,000
High Temperature, Laser Sintered Polymeric Material Digital Product Definition	2,500
Prepreg Thickness Variability Reduction Program	2,000
233 LOGISTICS INFORMATION TECHNOLOGY (LOGIT)	
Expert Organizational Development System (EXODUS)	1,500
234 SUPPORT SYSTEMS DEVELOPMENT	
Alternative Energy Fuel Cell Power Generation	1,000
Strategic Airlift Aircraft Availability Improvements	3,500
Heavy Duty Hybrid Electric Vehicle	2,000
Total	862,070