

Line	Item	Change from Budget Estimate
1	Combat Effective Facial Armor Research and Development	1,200
1	Dual Use Technologies for Bio-defense	1,500
1	University Strategic Partnership	3,200
2	Nanoscience Nanotechnology Institute	2,400
2	Illinois Institute of Technology	1,040
2	Nanocrystal Source Display	1,200
2	Bacterial Ghost Influenza Vaccine Development	1,600
2	Advanced Research to Further National Security Goals	1,000
2	Advanced Nano-Engineered Composites {AMRI}	4,000
2	Advanced Photonic Composites Research	3,253
2	Alternate Futures at the Range Complex Level for the Southwest US	1,000
2	Focus Center Government-Industry Consortia for University Research	8,000
3	Nanotechnology initiative at Shaw University	1,000
3	New York Structural Biology Center	1,600
3	Integrated Cryo-cooled High Power Density Systems	1,600
3	High Power Densities Research	2,000
6	Detection of Biological Agents in Water	2,000
	Diamond MEMS Sensors for Real-Time Sensing of Weaponized	
6	Pathogens	1,000
6	Portable Continuous Monitor for Biodetection	1,600
6	Rapid Response Database Systems Initiative	1,000
6	Initiative for Defense Against Bio-Warfare and Bio- Terrorism	1,600
6	Garden State Cancer Center Vaccine Development Program	800
6	DNA Safeguard	1,360
6	Multisignal Nanosensors for Detection of IEDs	2,000
6	PhotoScrub	1,600
8	Medical Free Electron Laser	2,400
9	Instrumentation Program for Tribal Colleges and Universities	2,640
	National Repository of Digital Forensic Intelligence/Center for	
11	Telecommunications and Network Security	1,120
11	Software Assurance Education and Research Institute	1,000
13	Biomedical Engineering Initiative	500
14	Point-of-Care Diagnostic System	1,000

Line	Item	Change from Budget Estimate
14	Biosurety Development and Management Program	800
14	Virus Mutation and Virus Transfer from Humans to Animals	3,000
14	Mixed Oxidants for Chemical and Biological Decontamination Self-Decontaminating Polymer System for Chemical and Biological	4,000
14	Warfare Agents	5,600
14	Rapid Forensic Evaluation of Microbes in Biodefense	1,000
14	Countermeasures to Chemical/Biological Control-Rapid Response Multifunctional Particles for Defeating CBWA (Chemical and Biological	4,000
14	Warfare Agents)	1,000
14	HyperAcute Vaccine Development	1,480
14	Antibody-based Therapeutic against Smallpox	1,000
14	Chemical/Biological Infrared Detection System	1,600
14	Rapid Detection of Bacterial Pathogens Research on a Molecular Approach to Hazardous Materials	1,600
14	Decontamination Zumwalt National Program for Countermeasures to Biological and	1,200
14	Chemical Threats	1,000
14	Novel Viral Biowarfare Agent Identification and Treatment (NOVBAIT)	3,200
16	Optinet Sensor System	800
16	CEROS	10,000
17	Economic production of coal-to-liquid fuels	2,400
17	Reduce environmental impact of coal-to-liquid fuels	2,400
17	Strategic Materials and Silicon Carbide Optics	5,000
19	3-D Technology for Advanced Sensor Systems	2,400
21	Fissile Material Detection Research	21,200
21	Simulated Virtual Prototype Environment Development	1,000
21	Comprehensive National Incident Management System Center for Nonproliferation Studies, Monterey Institute for International	2,400
21	Affairs	1,600
21	Remote Sighting System	800
21	PROTECTOR-DACS	2,400
21	National Center for Blast Mitigation and Protection	1,000
23	Pulsed Energy Projectile (PEP)	1,000
23	Special Operations Forces Network Centric Sharing and Storage	1,000

Line	Item	Change from Budget Estimate
	Nickel Boron Metal Coating Technology for USSOCOM Vehicle	
23	Systems	1,600
23	Athena - Threat Signal Locator	1,000
23	Advanced Multi-Purpose Microdisplay System	1,000
23	Flashlight Soldier-to-Soldier Combat ID System (FSCIS)	2,000
23	Improved Sensor Systems	2,000
23	Foliage Penetrating Reconnaissance and Surveillance System	2,000
27	Aerial Canopy Sensor Delivery System (ACS DS)	1,000
27	BIGFOOT Tag Airborne Receiver	4,000
27	Extended-Lifetime Radioisotope Batteries	800
27	Day Night Wide Area Surveillance System	1,600
28	Automated Language Translation	2,400
	Counterinsurgency Biometrics Tactical Census Authentication	
28	Enrollment and identification System	2,000
28	CT-OAS Counterterrorism-Quality Assurance Science program	1,200
28	DICAST System Enhancement	2,400
	Early Responders Distance Learning Center (ERDLC): Scenario and	
28	Incident Based Port Security Training	800
	EDIT Advanced Shallow Subsurface Tunnel, Bunker and Cache	
28	Detection	800
28	DIFAR Sensor System	1,600
28	Roll-On, Roll-Off Reconnaissance Pellet Improvement	4,800
28	Facility Security Using Tactical Surveys	3,000
	Law Enforcement Test Bed for Counter-Insurgency Tactics,	
28	Techniques and Practices	1,600
28	Port and Hull Security 3D, Real Time Sonar-System Echoscope	2,400
28	Comprehensive Maritime Domain Awareness	4,500
	Accelerated DT&E of Affordable Robust Mid-Sized UGVs for Defense &	
28	Homeland Security Applications	800
28	Contextual Arabic Blog and Slang Analysis Program	1,000
28	Advanced Multi-sensor ISR testbed	1,600
28	Autonomous Intrusion Surveillance Sensor Networks	2,000
	Bioterrorism Operations Policy for Public Emergency Response	
28	(BOPPER)	1,600

Line	Item	Change from Budget Estimate
	Interagency. Near-Term Engineering R&D to Increase the Survivability	
28	of Personnel Exposed to IED Attacks	2,400
28	Robotic Mobility Platform Systems	800
28	Ruggedized Mobile Gamma Radiation Detection System (GuARDS)	880
28	Ruggedized Mobile Secure 1000	800
28	Multi-mission Advanced Sensor System	3,000
	Low Power Next Generation Portable Radionuclide Detection & ID	
29	Systems	1,600
29	Stand-off Chemical Detector for SOF Venture	1,600
29	AELED IED Detection for Naval UAVs	1,000
	Continuation of Advanced Materials Research for Nuclear Detection,	
29	Counter-proliferation and Imaging	2,000
30	Aluminum Nitride for Substrates and Devices	1,600
30	Massively Parallel Optical Interconnects for Microsatellite Applications	3,200
30	Multi-Target Tracking Optical Sensor-Array Tracking	3,000
30	Net Centric Airborne Defense Element (NCADE)	4,800
32	Buoyancy Assisted Lift Air Vehicle	2,000
34	Develop & Test Environmentally Safe Biocides for Bio- Defense	500
34	Fraunhofer USA Center for Molecular Biology	1,000
	Hand-held Nanotechnology Enabled Bio-warfare Agent identification	
34	System	2,400
34	Long Range Stand Off System for Detection of Biological Materials	1,120
34	Myeloid Progenitor for Acute Radiation Syndrome	2,400
34	Carbon Nanotube Chemical Detector	1,000
34	Surface Enhanced infrared Detection of Threats	2,640
34	Regenerative Chemical Biological Filtration Systems	2,500
	Small Accelerators and Detection Systems for Homeland Defense and	
34	National Security Applications	1,600
34	Total Perimeter Surveillance (TPS)	1,600
34	Warfighter Personnel Decontamination	800
34	Acinetobacter Baumannii Research	2,000
	Antioxidant Micronutrient Therapeutic Countermeasures for Chemical	
34	Agents	1,000

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34	Anthrax Monoclonal Antibody Therapeutic and Prophylaxis Program UCLA High Speed and High Volume Laboratory Network for Infectious	1,600
34	Diseases	4,000
34	Photo Catalytic Oxidation (PCO) Demonstration for Water Reuse	2,000
34	Environmental Bioterrorism Detection Program	2,000
34	Improved Chemical, Biological, and Radiological Filters Mobile Rapid Response Prototype/Chemical Biological Preparedness	1,600
34	Center	4,000
34	Mobile Real-time, non-specific Viral Agent Detector Next Generation Gas Chromatographic Mass Spectrometer for WMD	1,500
34	Civil Support Teams	800
34	NIDS Automated Biological Agent Identifier	3,000
34	Plant Vaccine Development	3,000
34	Portable Rapid Bacterial Warfare Detection Unit Reactive Coatings Enhanced to Resist Chemical/Biological	4,400
34	Contamination	1,760
34	Strategic Bioterrorism Response for Battlefield Survival	1,440
34	Sensor Suite Development and Demonstration	1,600
34	Chemical Warfare Agent Fate Model Verification and Validation	1,000
34	Advanced Emergency Medical Response Training Program	1,600
34	Multi-purpose Biodefense Immunoarray Joint Technology Insertion and Accelerated System Integration	1,000
35	Capability for Electronic Warfare	3,200
36	Distributed Network Switching Joint Capability Demonstration	1,600
36	Hardware Encryption Technology Program	1,600
36	Louisiana Command and Control, Interoperable Communications and Information Sharing	2,000
36	Simultaneous Field Radiation Technology (SFRT)	3,100
36	Spartan Advanced Composite Technology	1,600
38	Variable Distance Iris Identification on the Move	3,200
40	Light Weight Composite Brakes for Armored Wheeled Vehicles Clafin University Detection and Remediation Response to Biological	800
40	and Chemical Weapons Protect	2,000
40	Disruptive Manufacturing Technology Initiative	8,000

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40	High Performance Manufacturing Technology Initiative	8,000
41	Joint Robotics Initiative	4,000
41	Autonomous and Semi-autonomous Manipulation for Ground Robots	500
41	Warrior Unmanned Ground Vehicle	4,000
42	Aging Systems Sustainment and Enabling Technologies (ASSET)	2,000
42	Emerging Critical interconnection Technology Program (EXIT)	800
42	Parts Backorder Reduction	2,400
42	Advanced Mobile Microgrid System	4,400
42	Accelerate Defense Supply Chain	1,600
42	Biofuels Program	1,600
42	Defense Fuel cell Locomotive	2,400
42	High Energy Battery for Unmanned Aerial Vehicles	2,080
42	Hydrogen Storage Program	5,000
42	New England Manufacturing Supply Chain Initiative	1,600
42	Spray Technique Analysis and Research for Defense (STAR4D)	1,600
42	Vehicle Fuel Cell and Hydrogen Logistics Program	8,000
44	Dendrimer Enhanced Water Remediation Research	800
45	Agile JTRS Integrated Circuits	1,600
45	Defense Command Integration Center	1,000
45	End to End Semi Fab Alpha Tool	1,600
45	Semi Conductor Photomask Technology Initiative	2,400
45	High Specific Energy Rechargeable Battery	1,600
45	Superlattice Nanotechnology	1,600
45	University Materials Characterization and Metrology Center	1,200
45	Spintronics Memory Storage Technology	2,400
45	3D Electronics	1,000
45	Carbon Nanotube Thin Film Near Infrared Detector	1,000
45	Next Generation Supercomputer IA Prototype for the NRL	4,500
45	Advanced Dynamic Optics Program	1,200
45	Foliage Penetrating Acoustically Cued Imagery Sensor	2,400
45	Advanced Surface Radar Technologies (ASuRT)	5,500
45	Demonstrations, T&E of Mini-Sensors	4,800
45	Transponders (EMFST)	3,000
45	Feature Size Migration at DMEA ARMS Foundry	4,000

Line	Item	Change from Budget Estimate
45	Networked Micro-Sensors Technology Testbed	1,600
45	Rapid Prototyping/Low Rate Production of Mini-Sensors	3,600
45	Sell-sensing Array container pre-screening sensor system	1,440
47	Computing and Nanoscale Electronic Processing	1,200
47	MilTech Extension Program	1,500
47	Ultra Low Power Electronics for Special Purpose Computers Power Dozer Side-Casting Technology Operational	1,040
49	Capability/Integration Evaluation	1,600
50	Data-intensive, High-Performance Computing-Phase 4	1,500
50	ARSC	4,000
50	High Performance Computational Design of Novel Materials	1,520
50	Simulation Research	1,600
50	High Performance Computing Infrastructure Enhancement	5,600
50	MHPCC	5,000
60	Semi-Autonomous Robotic Manipulation and Sensing	1,200
60	Counter Sniper Protection System (CSPS) Turret	1,120
60	Small Craft Integrated Common Operational Picture	800
60	Unmanned Aerial Vehicles	1,600
61	Cultural and Societal Modeling & Simulation	2,560
61	Joint Urban Fires Prototype (JUFP)	1,200
61	Joint Experimentation Visualization	1,600
61	East Coast Asymmetric Warfare Initiative First Link/Mil Tech First Responder Product Engineering and Test & Evaluation Program	800
64	DOD Springboard	1,600
64	DOD Springboard	2,000
65	11m RIB Replacement Craft Design	800
65	Field Experimentation Program for Special Operations Information Networking For Operational Reporting and Monitoring	1,600
65	(INFORM)	2,000
65	Waterway Threat Detection Sensor System	2,400
65	Improved Information Transfer for Special Forces	3,200
65	Special Operations Portable Power Source	2,400
66	Integrated Base Defense Operation Planning Process	1,000
66	Integrated High Activity Response System (INHARS)	4,000
66	Digital Network Centric Remotely Operated Weapons System	1,000

Line	Item	Change from Budget Estimate
66	Intelligent Decision Exploration	5,500
67	Shipboard Visitor Control Center	1,600
69	Joint Robotics Initiative	4,000
69	Robotics Program	8,000
71	Inland Empire Well Treatment of Perchlorate Contaminated Welts	2,000
	Multi-Sensor UXO Detection and Recovery System Reacquisition and	
71	Removal Phase at Camp Lejeune	1,600
71	Green Product Evaluation and Implementation Program	2,400
72	Joint Short Range Ballistic Missile Program	20,000
75	Protective Self-Decontaminating Surfaces	1,600
75	Vacuum Sampling Pathogen Collection and Concentration	3,200
75	Improved skin decontamination system	800
75	Fastman Analyzer Platform	1,600
76	Airborne Infrared Surveillance {AIRS}	2,000
77	CG(X) Modular Launch System	1,600
82	Ballistic Signal Processor/Open Architecture	16,000
82	Asymmetric Defense Initiative	10,000
	Safe High Power (High Rate) Lithium Battery for MKV (Missiles) with	
84	Long Storage Life	2,480
88	Joint National Integration Center (JNIC)	2,000
100	Secure Miniaturized Free Space Optical Communications	1,200
100	Antenna, Diagnostic and Microwave Characterization Facility	1,300
100	JET-Digital Aurora Radio Technology Program	3,252
104	ParallelVax Rapid Vaccine Testing Technology	2,000
104	Rapid Identification of Biological Warfare Agents	1,600
106	Joint Robotics Initiative	4,000
116	National Defense University Technology Research Program	1,000
	USJFCOM's Joint Warlighting Center (JWFC) Joint Training Blended	
127	Learning Initiative	2,000
127	Agile Software Capability Intervention	1,600
127	Playas Mobile Command, Control and Communications Shelter	2,500
127	Playas Training and Research Center Joint Training Experiment	3,200
131	Advanced SAM Hardware Simulator Development- !TEAMS	4,000
131	Joint Gulf Range Complex Test and Training Interdependency Initiative	1,000

Line	Item	Change from Budget Estimate
131	UAV Systems and Operations Validation Program (USOVP)	4,000
131	Range Tactical Data Link (TEL) & Relay Capability	2,400
131	Pacific Region interoperability Test and Evaluation Capability	3,000
135	Capabilities Study for Improvised Explosive Devices Detection	1,000
135	Countering Missile-related Technology Proliferation	2,000
	Foreign Test Range Analysis - Measurement and Signature Intelligence	
135	(MASINT)	1,000
150	Directed Energy Systems for UAV Payloads	1,000
161	Enhanced Simulation Capabilities for Information Operations	6,240
177	National Biometrics Security project	3,200
177	MatchBox (Biometrics Analysis and Identification)	4,720
190	Security for Critical Communication Networks (SCCN)	2,400
	Mobile Optical Wireless Networking for Intelligence, Surveillance, and	
200	Reconnaissance	1,600
202	Digital Data High Duality Recorder	800
	Internet Observer and Inner View Insider Threat Mitigation Tools (Note:	
202	Transferred from Senate General Provision 8128)	2,000
204	Credibility Assessment Research Initiative	1,600
207	Pacific Disaster Center	6,000
215	Constant Look Operation Support Environment (CLOSE)	1,600
219	Armed Forces Health and Food Supply Research	3,000
219	Biological and Chemical Warfare Online Respository of Technical	800
	Holdings System	
219	Missile-related Threat Representation--Shared	1,600
219	National Consortium for MASINT Research	3,000
219	Pat Roberts Intelligence Scholars Program (PRISP)	1,600
219	Project FORTITUDE	2,400
226	Castings for Improved Defense Readiness	2,000
226	Corrosion Resistant Ultrahigh-Strength Steel for Landing Gear	1,600
226	Military High Pressure Packaging Project	3,200
226	Northwest Manufacturing Initiative	1,000
226	Technology Roadmapping and Strategic Investment Planning	1,600
226	Advanced Microcircuit Emulation (AME)	3,200
226	Industrial Base Innovation Fund	24,000
226	Collapsible Urethane Fuel Storage Tanks	1,000

Line	Item	Change from Budget Estimate
233	Coved WPM Waveform Modules	2,000
233	Special Operation Forces Advanced Mission Planning Tools	3,200
233	Expendable Airdrop Delivery Systems (EADS)	800
233	Command and Control Mission Manager (C2MM) Spiral 5	1,600
	Semi-autonomous or Unattended Psychological Operations and	
233	Reconnaissance Tool (SUPPORT)	1,600
233	Small Boat Family Integrated Combat System	1,600
233	SOF Special Purpose Tagging, Tracking and Locating Tool Kit	1,000
	Communications Enhancements to Fielded TACTI-NET Systems to	
233	Extend Range and Increase Capacity	800
233	Multi-User Panoramic Synthetic Vision System	2,400
233	NSW RIB Payload Capacity Project	2,100
233	SOCOM computer research	1,000
	DF Light Advanced Packaging and Direction Finding In Support of Joint	
234	Threat Warning System	1,200
234	Unattended SIGINT Node	3,200
234	Integrated Bridge System	1,000
234	SOCOM Imagery Dissemination System	1,600
234	Tactical SIGINT and Geo- location Cognitive Analysis	400
234	Advanced, Long Endurance Unattended Ground Sensor Technologies	2,080
234	Advanced Tactical Threat Warning Radio (ATTWR)	1,600
234	Application Specific Integrated Circuit (ASIC) development	4,000
234	Automated Threat Warning for Improved Warfighter Survivability	1,600
234	Joint METOC Program (S05081)	1,600
234	Multi-Spectral Laboratory and Analytical Services Program	800
234	Picoceptor and Processor for Manportable Threat Warning	2,400
234	LAW/ASM Heat Rocket Confined Spaces	6,000
235	Partnership for Defense/Innovation Wi-Fi Test Laboratory	2,700
235	Application Specific Integrated Circuits Fabrication Facility	1,600
235	Parser Multi-Level Security	1,680
240	Trident Reach	5,000
	Total	729,045