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2012

Product	Organization	Co-Developers
High Output Neutron Generator DD-100 Series (Beam Instruments)	Adelphi Technology Inc.	Lawrence Berkeley National Laboratory
2 Micron High Power Mode-Locked Fiber Laser (Lasers and Photonics)	AdValue Photonics	
Agilent 4100 Microwave Plasma-Atomic Emission Spectrometer (MP-AES) (Analytical Instruments)	Agilent Technologies Australia (M) Pty Ltd	
Globus Online (Software)	Argonne National Laboratory	The University of Chicago
High-Energy Concentration-Gradient Cathode Material for Plug-in Hybrids and All-Electric Vehicles(Energy Technologies)	Argonne National Laboratory	Hanyang University; ECOPRO Co. Ltd.
Large Area Microchannel Plates(Imaging Technologies)	Argonne National Laboratory	Incom, Inc.; Berkeley Space Sciences Laborat
Ultra-fast and Large-scale Boriding(Process Science)	Argonne National Laboratory	Istanbul Technical University (I.T.U.); odycode Thermal Processing
Plexiglas Rnew Biopolymer Alloys(Materials Sciences)	Arkema Inc.	Arkema France – G. R. L.
Sequenced Inverter (Electrical Devices)	ArrayPower	
FPS3010 – Real Time Interferometric Sensor (Electronic Instrumentation)	attocube systems AG	
LS10 Liquid Scanner (Safety and Security)	Battelle Memorial Institute	
QX100 Droplet Digital PCR System(Life Sciences)	Bio-Rad Laboratories Inc.	
BCM4360, BCM4352, BCM43526, BCM43516 and BCM43460(Communications)	Broadcom	
Platinum Monolayer Electrocatalysts for Fuel Cell Cathodes (Energy Technologies)	Brookhaven National Laboratory	N.E. Chemcat Corporation
Photon 100 (Analytical Instruments)	Bruker AXS Inc.	
Landmark Solaris Solar Reflective Shingles (Energy Technologies)	CertainTeed	
Dow Polymeric Flame Retardant(Chemicals)	Dow Chemical	
LifeSense Hydraulic Hose Condition Monitoring System (Mechanical Systems)	Eaton Corporation	Purdue University
Samplicity Filtration System(Laboratory Equipment)	EMD Millipore	
AcousTech Machining (Mechanical Systems)	EWI	
Asymmetric Rolling Mill: A Novel Route for Processing Sheet and Plate (Mechanical Systems)	FATA Hunter Inc.	Oak Ridge National Laboratory; Magnesium Elektron North America
Vion Plasma Focused Ion Beam(Imaging Technologies)	FEI	



	Institute for Biologically Inspired Engineering	
Hyperspec Recon (Imaging Technologies)	Headwall Photonics Inc.	
Verde Hyperspectral Imaging Camera (Imaging Technologies)	Horiba Scientific	Snapshot Spectra Inc.
Wireless Spectrum Communications (Communications)	Idaho National Laboratory	
GammaPix Libraries (Safety and Security)	Image Insight Inc.	Advanced Fuel Research Inc.
ae Plasma - Atmospheric environment plasma coating technology (Thin Film and Vacuum Technologies)	Industrial Technology Research Institute, Taiwan	
AVA Clamp - Clamp-on voltage and current meter technology (Electronic Instrumentation)	Industrial Technology Research Institute, Taiwan	
Light&Light - A19 LED Light Bulb Technology (Electrical Devices)	Industrial Technology Research Institute, Taiwan	
Lignoxy - LBP, lignin-based polymer technology (Materials Science)	Industrial Technology Research Institute, Taiwan	
Sidelighter - Optical microstructure-based concentrator photovoltaic technology (Energy Technologies)	Industrial Technology Research Institute, Taiwan	
TEMM - Thermoelectric material and module technology (Materials Sciences)	Industrial Technology Research Institute, Taiwan	
RFID-mf: Metal-friendly RFID technology for metallic objects (Communications)	Institute for Information Industry (III), Taiwan	2D-Alliance Inc.
2nd Generation Intel Core processor, codenamed "Sandy Bridge" (Information Technologies)	Intel	
Compact Variable Collimator (CVC) (Beam Instruments)	Lawrence Berkeley National Laboratory	Takeda California; GNF - Genomics Institute the Novartis Research Foundation
Laser Ablation Molecular Isotopic Spectrometry (LAMIS) (Analytical Instruments)	Lawrence Berkeley National Laboratory	Applied Spectra Inc.
Multinozzle Emitter Array (MEA) (Analytical Instruments)	Lawrence Berkeley National Laboratory	Newomics Inc.
High Velocity Laser Accelerated Deposition (HVLAD) - Corrosion and Wear Resistant Coatings with Extreme Interfacial Bond Strength (Thin Film and Vacuum Technologies)	Lawrence Livermore National Laboratory	Metal Improvement Company - Division of Curtis-Wright Corporation
Laser Energy Optimization by Precision Adjustments to the Radiant Distribution (LEOPARD) (Lasers and Photonics)	Lawrence Livermore National Laboratory	Meadowlark Optics
Plastic scintillators for neutron and gamma discrimination (Beam Instruments)	Lawrence Livermore National Laboratory	Eljen Technologies
Snowflake Power Divertor (Energy Technologies)	Lawrence Livermore National Laboratory	Princeton Plasma Physics Laboratory ; EPFL Center for Research in Plasma Physics ; Oak Ridge National Laboratory
Leica SR GSD (Imaging Technologies)	Leica Microsystems CMS GmbH	Max-Planck Institute for Biophysical Chemist
Sequedex - Software to classify what organism a DNA sequence came from and what it does (Life Sciences)	Los Alamos National Laboratory	



	Laboratory	
Valveless Laser Processing (Lasers and Photonics)	Los Alamos National Laboratory	Y-12 National security Complex
NO2 (nitrogen dioxide) Analyzer (Analytical Instruments)	Los Gatos Research Inc.	Harvard University
The Lytro Light Field Camera (Consumer Products)	Lytro Inc.	
Engine Start Module (Electrical Devices)	Maxwell Technologies Inc.	
PComP (Materials Sciences)	MesoCoat Inc.	Powdermet Inc.
Microsaic 3500 MiD (Analytical Instruments)	Microsaic Systems	
Concrete Cloth (Materials Sciences)	Milliken & Company	Concrete Canvas Ltd.
ResQ FR Fabrics (Materials Science)	Milliken & Company	
Lincoln Open Cryptographic Key Management Architecture (LOCKMA) (Software)	MIT Lincoln Laboratory	
Route Availability Planning Tool (RAPT) (Safety and Security)	MIT Lincoln Laboratory	
Wavelength Beam-Combining Fiber-Coupled Diode Laser (Lasers and Photonics)	MIT Lincoln Laboratory	TeraDiode
Wide Field-of-View Curved Focal Plane Array (WFC) (Imaging Technologies)	MIT Lincoln Laboratory	GL Scientific Inc.
NPM 3100 (Materials Sciences)	NanoSteel Company Inc.	
Polyimide Aerogels (Materials Sciences)	NASA Glenn Research Center	Ohio Aerospace Institute
The SolarVolt module (Energy Technologies)	NASA Glenn Research Center	Entech Solar Inc.
Multiplexed Photonic Doppler Velocimeter (MPDV) (Analytical Instruments)	National Security Technologies LLC	Lawrence Livermore National Laboratory; Los Alamos National Laboratory
Basic Immobilized Amine Sorbent (BIAS) Process for Carbon Dioxide (CO2) Capture (Environmental Technologies)	National Energy Technology Laboratory	ADA Environmental Solutions Inc.
Gen2.0 PremiumPlus+ Electronically Commutated Permanent Magnet (ECPM) motors (Mechanical Systems)	NovaTorque	
DEVAP: Desiccant-Enhanced Evaporative Air-Conditioning (Energy Technologies)	National Renewable Energy Laboratory	AIL Research; Synapse Product Development LLC
SJ3 Solar Cell (Energy Technologies)	National Renewable Energy Laboratory	Solar Junction
Solver Spectrum (Imaging Technologies)	NT-MDT	
Broadband Micromechanical Antenna (Communications)	Oak Ridge National Laboratory	
HiCap Adsorbents (Environmental Technologies)	Oak Ridge National Laboratory	Hills Inc.
Highest Pinning Force, High-Temperature Superconducting Wires with Double-Perovskite, Tantalate, Nano-Pinning Centers (Electrical Devices)	Oak Ridge National Laboratory	SuperPower Inc.; University of Houston



Manufacturing/Mechanical Systems	Laboratory	
NanoSHIELD Coatings [Nano – Super Hard – InExpensive - Laser Deposited Coatings] (Materials Science)	Oak Ridge National Laboratory	Carpenter Technology Corporation; Colorado School of Mines; Lawrence Livermore National Laboratory
Radio Channel Simulator (RCSim)(Communications)	Oak Ridge National Laboratory	Networkcism LLC
Wavelength-shifting scintillator neutron detector (Beam Instruments)	Oak Ridge National Laboratory	PartTec Ltd.
4 mm and 8 mm Scaleview Objectives (Imaging Technologies)	Olympus America Inc.	
BeamTrack Laser Power/Position/Size Sensors(Lasers and Photonics)	Ophir Photonics Group	
Catalys Precision Laser System (Life Sciences)	OptiMedica	LUNAR; 219 Design LLC; National Instruments
iMSO-104 (Electronic Instrumentation)	Oscium	
PPO HyperChannel Spectrometer(Analytical Instruments)	P&P Optica Inc.	
Advanced Carbon-dioxide Removal Unit (Environmental Technologies)	Pacific Northwest National Laboratory	Steward Advanced Materials
Graphene Nanostructures for Lithium Batteries (Materials Sciences)	Pacific Northwest National Laboratory	Vorbeck Materials
SecurityGuard ULTRA UHPLC Column Protection System(Laboratory Equipment)	Phenomenex Inc.	
picoSpin-45 NMR Spectrometer(Analytical Instruments)	picoSpin LLC	
emPower! eyewear (Consumer Products)	PixelOptics Inc.	
Polartec NeoShell (Materials Sciences)	Polartec LLC	Finetex Technology
LAESI DP-1000 Direct Ionization System (Analytical Instruments)	Protea Bioscience Group Inc.	
iPorator-96 Transfection System(Life Sciences)	Rational Biotechnology Inc. (DBA: Primax Biosciences Inc.)	
Arrow (Imaging Technologies)	Rebellion Photonics	
Rigol DG4000 Series Function/Arbitrary Waveform Generators (Electronic Instrumentation)	Rigol Technologies Inc.	
RTI MicroPEM Sensor (Safety and Security)	RTI International	
Microsystem Enabled Photovoltaics(MEPV) (Energy Technologies)	Sandia National Laboratories	
Neutristor (Beam Instruments)	Sandia National Laboratories	
Sandia Cooler (Electrical Devices)	Sandia National Laboratories	
Sandia Digital Microfluidic Hub(Laboratory Equipment)	Sandia National Laboratories	
Hybrid Ceramic-Sand Core Casting Technology (Process Sciences)	Southwest Research Institute	Grainger and Worrall Ltd.
Low Frequency RF Plasma Source(Thin Film and Vacuum Technologies)	Structured Materials Industries Inc.	Oak Ridge National Laboratory; University of California at Santa Cruz (UCSC)
Asia Flow Chemistry System(Laboratory Equipment)	Syrris Ltd	

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Research Institute

Aviation Administration Airworthiness Assurance Team

Thermal Direct (Electrical Devices)

Utility Risk Management Corporation

VersaXRM-500 3D x-Ray Microscope (Imaging Technologies)

Xradia Inc.

DynaFiz Laser Interferometer(Lasers and Photonics)

Zygo Corp.

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