

Primary Developer	2014 R&D 100 Winning Technology (Category)	Co-developers/Contributors
AdValue Photonics	All-Fiber Isolator (Lasers/Photonics)	
Agilent Technologies	Agilent Technologies N2820A Series High-Sensitivity, High Dynamic Range Current Probes (Electronic Instrumentation)	
Agilent Technologies Australia (M) Pty Ltd	Agilent Cary 7000 Universal Measurement Spectrophotometer (UMS) and Universal Measurement Accessory (Analytical Instrumentation)	
Alcoa Inc.	Alcoa 951 (Chemicals)	
American Standard	The SaTo Hygienic Toilet Pan (Consumer Products)	
Applied NanoStructures Inc. (AppNano)	Vertisense Scanning Thermal Microscopy Module (Imaging Technologies)	
Argonne National Laboratory	SIS Lithography (Thin Film & Vacuum Technologies)	
Argonne National Laboratory	NanoFab Lab...in a Box! (Thin Film & Vacuum Technologies)	EChem Nanowires Educational Foundation Inc.
Argonne National Laboratory	Argonne's Advanced Redox Shuttle Additive for Overcharge Protection of Lithium-Ion Batteries Used in Electric Vehicles (Energy)	
Arkansas Power Electronics International Inc. (APEI)	High-Performance Silicon Carbide-based Plug-In Hybrid Electric Vehicle Battery Charger (Energy)	Oak Ridge National Laboratory Univ. of Arkansas Toyota Research Institute of North America Cree Inc. Advanced Research Projects Agency - Energy
Brookhaven National Laboratory	GammaScout (Beam Instruments)	Korea Univ.
Bruker Nano Surfaces	LumiMap (Thin Film & Vacuum Technologies)	
Carl Zeiss Microscopy LLC	ELYRA P.1 with 3D PALM (Imaging Technologies)	
CEM Corp.	Liberty Blue Automated Microwave Peptide Synthesizer (Laboratory Equipment)	

Clean Filtration Technologies LLC, a Dow Chemical Company	TEQUATIC PLUS Fine Particle Filter (Environmental Technologies)	The Dow Chemical Company
Crystal Solar Inc.	Direct Gas to Wafer Epitaxial System (Thin Film & Vacuum Technologies)	National Renewable Energy Laboratory
Daimler AG	NANOSLIDE (Process Science)	Gebr. Heller Maschinenfabrik GmbH
Dow AgroSciences LLC	Transform WG Insecticide and Closer SC Insecticide with Isoclast Active (Chemicals)	
Dow Europe GmbH	BETAMATE 1630 Structural Adhesive (Chemicals)	The Dow Chemical Company Dow Automotive Systems
EMD Millipore	Clarisolve (Laboratory Equipment)	
EMD Millipore	SmartFlare RNA Detection Probes (Life Sciences)	
Excellims Corporation	IA3100 HPIMS HPLC Detector (Analytical Instrumentation)	
Filter Sensing Technologies Inc.	RF-DPF Diesel Particulate Filter Sensor (Environmental Technologies)	Massachusetts Institute of Technology Oak Ridge National Laboratory
Grene Theme Technologies LLC	The ChemStik Technology (Chemicals)	Under Armour Inc.
Hitachi Research Laboratory, Hitachi Ltd	Hitachi Cs-Sr simultaneous adsorbent (Environmental Technologies)	Hitachi-GE Nuclear Energy Ltd.
Hysitron Inc.	xSol (Mechanical Systems)	
Hysitron Inc.	Hysitron BioIndenter (Confocal TriboScope) (Imaging Technologies)	
Idaho National Laboratory	Advanced Electrolyte Model (AEM) (Software)	
Idaho National Laboratory	Multiphysics Object Oriented Simulation Environment (MOOSE) (Software)	
Industrial Technology Research Institute (ITRI)	HECLOT: High-efficiency calcium looping technology (Environmental Technologies)	
Industrial Technology Research Institute (ITRI)	ICTA: In-Line Compact Thermal Analyzer (Imaging)	
Industrial Test Systems Inc.	eXact iDip photometer (Laboratory	

	Equipment)	
INFICON	Micro GC Fusion (Laboratory Equipment)	
INFICON	Stripe CDG (Thin Film & Vacuum Technologies)	
Janssen Research & Development LLC	SIRTURO (bedaquiline) (Life Sciences)	
JFE Steel Corporation	JFE-TF1 (Materials)	
Kansas State Univ., SMART Laboratory	Li-Foil Neutron Detectors (Beam Instruments)	Saint-Gobain Crystals
KEYENCE Corp.	VR-3000 Series One-shot 3-D Measurement Macroscope (Imaging Technologies)	
Lawrence Berkeley National Laboratory	Tissue-Specific Cell-Wall Engineering for Biofuels and Biomaterials (Life Sciences)	
Lawrence Berkeley National Laboratory	BioSig3D (Life Sciences)	
Lawrence Berkeley National Laboratory	Berkeley Lab Multiplex Chemotyping Microarray (Life Sciences)	
Lawrence Livermore National Laboratory	Convergent Polishing: Rapid, Simple, Low Cost Finishing of High Quality Glass Optics (Process Science)	
Lawrence Livermore National Laboratory	Superconducting Tunnel Junction X-Ray Spectrometer (Analytical Instrumentation)	STAR Cryoelectronics LLC
Lawrence Livermore National Laboratory	microTLC (Laboratory Equipment)	Field Forensics Inc.
Lawrence Livermore National Laboratory	Extreme-power Ultra-low-loss Dispersive Element (EXUDE) (Lasers/Photonics)	Lockheed Martin Laser and Sensor Systems Advanced Thin Films
Leica Microsystems CMS GmbH	Leica TCS SP8 STED 3X (Imaging Technologies)	Max Planck Institute for Biophysical Chemistry
Los Alamos National Laboratory	SAFIRE (Environmental Technologies)	Chevron ETC GE Measurement & Control
Los Alamos National Laboratory	Acoustic Wavenumber Spectrometer (AWS) (Analytical Instrumentation)	
Mettler Toledo	XPE205 Excellence Analytical Laboratory Balance (Laboratory Equipment)	

Milliken & Company	ASSIST Silver (Life Sciences)	Milliken Healthcare Products LLC
Milliken & Company	iQ Series Comfort Knit/Amplitude G2 Flame Resistant Fabric (Materials)	Bulwark FR
MIT Lincoln Laboratory	Haystack Ultrawideband Satellite Imaging Radar (HUSIR) (Communications)	Simpson Gumpertz and Heger Inc. Communications & Power Industries
MIT Lincoln Laboratory	Lunar Laser Communication System (LLCS) (Communications)	NASA Goddard Space Flight Center
MIT Lincoln Laboratory	High-Capacitance Radio-Frequency Curled Microelectromechanical Switch (CMEMS) (Communications)	Innovative Micro Technology
MIT Lincoln Laboratory	Wide-Area Chemical Sensor (WACS) (Analytical Instrumentation)	
MIT Lincoln Laboratory	Airborne Sense and Avoid (ABSAA) Radar Panel (Safety & Security)	
MIT Lincoln Laboratory	Localizing Ground Penetrating Radar (LGPR) (Communications)	
Mitsubishi Electric Corporation	Sensor-less Servo Drive Unit FR-E700EX Series & Sensor-less Motor MM-GKR (Mechanical Systems)	
Mitsubishi Electric Corporation	MELFA-3D Vision (Mechanical Systems)	
Monsanto	Genuity DroughtGard Hybrids (Environmental Technologies)	
NASA Glenn Research Center	Therma-Base (Electrical Devices)	Thermacore Inc.
NASA Glenn Research Center	Superelastic Intermetallic Nickel Titanium Alloys and Manufacturing Techniques for Advanced Bearing Applications (Materials)	Abbott Ball Company
National Renewable Energy Laboratory	HP Apollo Platform for High-Performance Computing (Information Technologies)	Hewlett-Packard Company
neoSurgical	neoClose (Life Sciences)	
NinePoint Medical	NinePoint Medical NvisionVLE Imaging System (Life Sciences)	Farm Design Inc.
Novilytic	Noviplex Plasma Collection Card (Life Sciences)	

Novinda Corporation	Amended Silicates HgX (Environmental Technologies)	
Oak Ridge National Laboratory	Portable Aluminum Deposition System (PADS) (Process Science)	United Technologies Research Center (UTRC) Univ. of Mississippi
Oak Ridge National Laboratory	Ionic liquid anti-wear additives for fuel-efficient engine lubricants (Chemicals)	General Motors Research and Development Center Shell Global Solutions (US) Lubrizol Corporation
Oak Ridge National Laboratory	Continuously Variable Series Reactor (CVSR) (Energy)	SPX Transformer Solutions Inc. University of Tennessee
Oak Ridge National Laboratory	Diagnosis Using the Chaos of Computing Systems (DUCCS) (Information Technologies)	
Oak Ridge National Laboratory	iSPM: Intelligent Software Suite for Personalized Modeling of Expert Opinions, Decisions, and Errors in Visual Examination Tasks (Software)	
Oak Ridge National Laboratory	Super-hydro-tunable HiPAS membranes (Materials)	
OSRAM GmbH	ITOS PHASER 3000 Light Module (Lasers/Photonics)	OSRAM SYLVANIA T.Q. Technology Co. Ltd.
Pacific Northwest National Laboratory	SALVI: System for Analysis at the Liquid Vacuum Interface (Analytical Instrumentation)	
Pacific Northwest National Laboratory	Solar Thermochemical Advanced Reactor System (STARS) (Energy)	DiverSolar LLC
Pacific Northwest National Laboratory	Glyph (Consumer Products)	Avegant Corporation
PTT Public Company Ltd	PTT DIESEL CNG (Energy)	
Sandia National Laboratories	Triplet-Harvesting Plastic Scintillators (THPS) (Beam Instruments)	Radiation Monitoring Devices Inc. Univ. of California, Riverside
Sandia National Laboratories	GOMA 6.0 (Software)	Gillette/P&G Drexel Univ. Google 3M Corporate Research Process Lab Univ. of New Mexico Prism Software

Sandia National Laboratories	BaDx (Life Sciences)	Univ. of New Mexico
Siemens Corporation	syngo.CT Bone Reading (Imaging Technologies)	Siemens AG H IM CR
Singapore Institute of Manufacturing Technology	Flexure-based Electromagnetic Linear Actuator (Mechanical Systems)	
SolidEnergy Systems	Solid Polymer Ionic Liquid (SPIL) Rechargeable Lithium Battery (Materials Sciences)	
Southwest Research Institute (SwRI)	Dedicated-EGR (D-EGR) (Mechanical Systems)	
Stanford Univ.	Foldscope (Imaging Technologies)	
Stratos Product Development	Passive Vaccine Storage Devices (Life Sciences)	Intellectual Ventures Labs/Global Good
Texas Instruments	LDC1000 Inductance-to-Digital Converter (Electrical Devices)	
Texas Instruments	bq25570 nanopower boost charger with integrater buck (Electrical Devices)	
The Dow Chemical Company	NEPTUNE subsea insulation system (Materials)	Dow Infrastructure Comfort Energy Efficiency Dow Oil, Gas and Mining
The Dow Chemical Company	Preferred RCS Garnet 2.0 resin coated sand utilizing Dow's TERAFORCE technology (Materials)	Preferred Technology Dow Polyurethanes
Thermo Fisher Scientific	Thermo Scientific Delta Ray Isotope Ratio Infrared Spectrometer (Analytical Instrumentation)	
Thermo Fisher Scientific	Thermo Scientific Dionex ERS 500 Electrolytically Regenerated Suppressor (Analytical Instrumentation)	
Thermo Fisher Scientific	Thermo Scientific RIIDEyeX (Beam Instruments)	
Toyota Technical Center	Automotive Phased Array Radar (Communications)	Univ. of California, San Diego Toyota Motor Corp. Michigan Technological Research Institute Fujitsu-Ten
TruTag Technologies Inc.	TruTag Product Authentication Solution (Communications)	
United Technologies	EcoTuff (Chemicals)	Pratt & Whitney

Research Center (UTRC)

3M Corp.

Univ. of Central Florida

Intellipigment (Safety & Security)

HySense Technology LLC

Waters Corporation

CORTECS Columns (Laboratory  
Equipment)

Yokohama Research  
Laboratory, Hitachi Ltd

Plasmon-Excitation Optical Scanning  
Probe Microscope (Optical SPM)  
(Imaging Technologies)