**2013 R&D 100大奖获奖名单**

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| **Primary Developer** | **2013 R&D 100 Winning Technology (Category)** | **Co-developers/Contributors** |
| Abbott | Absorb Bioresorbable Vascular Scaffold (Life Sciences) |  |
| Adelphi Technology Inc. | “High Flux Fast Neutron Source” Model DD-109X (Beam Instruments) | Univ. of Florida |
| Agilent Technologies | Express Test (Electronic Instrumentation) | Nanomechanics Inc. |
| Agilent Technologies | Infiniium 90000 Q-Series Oscilloscope (Electronic Instrumentation) | Infiniium R&D |
| Agilent Technologies International Japan Ltd. | Agilent 8800 Triple Quadrupole ICP-MS (ICP-QQQ) (Analytical Instrumentation) |  |
| Argonne National Laboratory | Miraj Diamond Platform (Communications) | AKHAN Technologies Inc. |
| Argonne National Laboratory | The *Rhodobacter* Membrane Protein Expression System (Life Sciences) |  |
| Argonne National Laboratory | Nanocomposite Charge Drain Coatings (Thin Film & Vacuum Technologies) | KLA-Tencor Inc. |
| Battelle Memorial Institute | Proteus Dual Mode Underwater Vehicle (Mechanical Systems) | The Columbia Group – Engineering Solutions Div. Bluefin Robotics Corporation |
| Bausch + Lomb | Biotrue ONEday lenses (Consumer Products) |  |
| Carbtex Technology | Diamondown (Consumer Products) | Element Group Consulting LLC Auburn Univ. |
| Carl Zeiss Microscopy LLC | Lightsheet Z.1 microscope imaging system (Imaging) | Carl Zeiss Microscopy GmbH |
| Da Vinci Emissions Services Ltd. | Da Vinci Fuel-in-Oil (DAFIO) Measurement System (Environmental Technologies) | Oak Ridge National Laboratory Cummins Inc. |
| Decision Sciences International Corporation | Multi-Mode Passive Detection System (MMPDS) (Safety & Security) | Los Alamos National Laboratory |
| EMD Millipore | Direct Detect (Analytical Instruments) |  |
| Fluxion Biosciences Inc. | IsoFlux System (Laboratory Equipment) |  |
| General Motors Global R&D Center | Shape memory polymer based smart reversible adhesive systems (Materials Science) |  |
| Hinds Instruments Inc. | 150XT Mueller Polarimeter (Laboratory Equipment) | New York Univ. |
| Hybrid Plastics Inc. | UV1900B – UV White 100% Solids Paint (Chemicals) | J.H. Hinz Company |
| Idaho National Laboratory | Switchable Polarity Solvent Forward Osmosis (SPS FO) (Environmental Technologies) |  |
| Industrial Technology Research Institute | iAT technology (Electrical Device) |  |
| Industrial Technology Research Institute | ButyFix (Energy Technology) |  |
| Industrial Technology Research Institute | FluxMerge (Mechanical Systems) |  |
| Institute for Information Industry | BestLINK (Communications) | K-Best Technology Inc. |
| Institute for Information Industry | CraneAbide (Information Technologies) |  |
| JFE Steel Corporation | HIPER (Mechanical Systems) |  |
| Keithley Instruments | Model 2657A High Power System SourceMeter SMU Instrument (Electronic Instrumentation) |  |
| Lawrence Berkeley National Laboratory | Bacteriophage Power Generator (Energy Technology) | Univ. of California, Berkeley |
| Lawrence Berkeley National Laboratory | Universal Smart Window Coating (Energy Technology) | Heliotrope Technologies Inc. |
| Lawrence Berkeley National Laboratory | Optically-detected Oil Well Logging by MRI (OWL-MRI) (Environmental Technologies) |  |
| Lawrence Berkeley National Laboratory | Berkeley Lab Campanile Probe (Imaging) | Univ. of California, Berkeley |
| Lawrence Berkeley National Laboratory | High-Throughput NIMS Screening (HT-NIMS) (Analytical Instruments) | Nextval Inc. |
| Lawrence Berkeley National Laboratory | Conducting Polymer Binder for High-Capacity Lithium-Ion Batteries (Materials Sciences) |  |
| Lawrence Berkeley National Laboratory | On-demand Secure Circuits and Advance Reservation System (OSCARS) 0.6 (Software) | ESnet |
| Lawrence Livermore National Laboratory | DNA TRAX: DNA Tagged Reagents for Aerosol eXperiments (Environmental Technologies) |  |
| Lawrence Livermore National Laboratory | Movie Mode Dynamic Transmission Electron Microscope (MM-DTEM) (Imaging) | Integrated Dynamic Electron Solutions |
| Lawrence Livermore National Laboratory | Efficient Mode-Converters for High-Power Fiber Amplifiers (Lasers & Photonics) |  |
| Lawrence Livermore National Laboratory | Laser SHIELD (Screening at High-throughput to Identify Energetic Laser Distortion) (Lasers & Photonics) |  |
| Los Alamos National Laboratory | MiniMAX (Miniature, Mobile, Agile X-ray system) (Beam Instruments) | Leica Camera AG JDS Uniphase JENOPTIK Optical Systems LLC |
| Los Alamos National Laboratory | KiloPower (Energy Technology) | NASA Glenn Research Center National Security Technologies |
| Material Interface Inc. | Minimox Self-Protective Alloy Treatment (Process Science) | Materials Technology Institute |
| Materials & Electrochemical Research (MER) Corporation | Refractory Metal Coated Copper Gun Rail (Mechanical Systems) | Princeton Plasma Physics Laboratory  EPFL Center for Research in Plasma Physics  Oak Ridge National Laboratory |
| Metal Industries Research and Development Centre | Coin Type Motor (Motor on Board) (Mechanical Systems) | National Cheng Kung Univ. |
| Milliken & Co. | Conceal Camouflage Technology (Materials Science) | SSZ Camouflage Technology AG |
| MIT Lincoln Laboratory | Photoacoustic Sensing of Explosives (PHASE) (Safety & Security) |  |
| MIT Lincoln Laboratory | Structured Knowledge Space (SKS) (Software) |  |
| NanoMech Inc. | TuffTek (Materials Science) | Institute for Nanoscience and Engineering at the Univ. of Arkansas National Science Foundation (NSF) U.S. Environmental Protection Agency (EPA) |
| Nanomechanics Inc. | In-SEM HT (Imaging) |  |
| NASA Dryden Flight Research Center | Fiber Optical Sensing System (FOSS) (Communications) | 4DSP |
| NASA Glenn Research Center | NASA/Harris Ka-Band Software-Defined Radio (SDR) (Communications) | Harris Corporation |
| NASA Johnson Space Center | Robo-Glove (Mechanical Systems) | General Motors |
| National Energy Technology Laboratory | Arc Position Sensing Technology (Electronic Instrumentation) | ATI Allvac |
| National Energy Technology Laboratory | BlackGold (Materials Science) | MDS Coating Technologies Corporation Delta Air Lines |
| National Institute of Standards and Technology | Quantitative Hybrid Metrology (Imaging) |  |
| National Renewable Energy Laboratory | Image-Processing Occupancy Sensor (IPOS) (Electrical Device) |  |
| National Renewable Energy Laboratory | Isothermal Battery Calorimeters (IBCs) (Energy Technology) | NETZSCH Instrument North America, LLC |
| NCD Technologies | NCD Technologies Plus coating (Materials Science) | Argonne National Laboratory |
| NevadaNano | Molecular Property Spectrometer (MPS)(Analytical Instruments) | MindtribeIP Solutions EigenVector Research Incorporated |
| Newlight Technologies LLC | AirCarbon (Materials Sciences) |  |
| ClimateMaster | ClimateMaster Trilogy 40 Q-Mode geothermal heat pump (Energy Technology) | Oak Ridge National Laboratory |
| Oak Ridge National Laboratory | ADIOS: Adaptable I/O System for Big Data (Information Technologies) | Georgia Institute of Technology Rutgers Univ. North Carolina State Univ. |
| Oak Ridge National Laboratory | Distribute The Highest Selected Textual Recommendation (DTHSTR) (Information Technologies) |  |
| Oak Ridge National Laboratory | V-shaped External Cavity Laser Diode Array (VECLDA) (Lasers & Photonics) |  |
| Olympus America Inc. | Olympus IX3 Inverted Microscope Series (Imaging) | NAGANO OLYMPUS CO. LTD. |
| Orthocare Innovations | Magellan MFA (Magellan Microprocessor Foot Ankle System) (Life Sciences) |  |
| Oxford Instruments Omicron NanoScience | LT NANOPROBE (Imaging Technologies) | Forschungszentrum Jülich GmbH |
| P&P Optica Inc. | PPO SWIR Spectrometer (Analytical Instrumentation) |  |
| Pacific Northwest National Laboratory | Combined Orthogonal Mobility & Mass Evaluation Technology (CoMet) (Analytical Instrumentation) |  |
| Phenomenex Inc. | Phree Phospholipid Removal Plates (Laboratory Equipment) |  |
| PID Analyzers LLC | Model 33 Arsenic in Water & Food Analyzer (Laboratory Equipment) |  |
| Point Source Power Inc. | VOTO (Energy Technology) | Lawrence Berkeley National Laboratory |
| PolarOnyx Inc. | Uranus Series – 50 micro-J 1 MHz High Energy Femtosecond Fiber Laser (Lasers & Photonics) |  |
| Porous Power Technologies | SYMMETRIX HPX-F (Energy Technology) | Oak Ridge National Laboratory |
| Princeton Instruments | IsoPlane SCT-320 (Analytical Instrumentation) |  |
| Protochips Inc. | Poseidon 500 (Imaging) |  |
| PureForge | PureForge brake rotors (Mechanical Systems) |  |
| Rheem | The Rheem H2AC Rooftop Unit featuring eSync Integration Technology (Mechanical Systems) |  |
| Sandia National Laboratories | Solar Glare Hazard Analysis Tool (SGHAT) (Safety & Security) | Univ. of New Mexico |
| Sandia National Laboratories | Mantevo Suite 1.0 (Software) | Los Alamos National Laboratory Lawrence Livermore National Laboratory Atomic Weapons Establishment (AWE) |
| Sandia National Laboratories | Membrane Projection Lithography (Thin Film & Vacuum) | Vorbeck Materials |
| Solidia Technologies Inc. | Solidia Cement (Materials Science) | Rutgers Univ. |
| TAG Optics Inc. | TAGLens2.0 (Imaging) |  |
| TetraSun Inc. | TetraCell solar cells (Energy Technology) | National Renewable Energy Laboratory |
| TEXMat LLC | Large-Area, Flexible, Single-Crystal-Like, GaAs Substrates For Epitaxial Electronic & Electrical Devices (Materials Sciences) | TapeSolar |
| The Dow Chemical Company | EVOQUE Pre-Composite Polymer Technology (Chemicals) |  |
| The Dow Chemical Company | SILVADUR (Chemicals) |  |
| Thermo Fisher Scientific Inc. | iCAP Q (Analytical Instrumentation) |  |
| Thermo Fisher Scientific Inc. | EASY-Spray (Analytical Instrumentation) |  |
| Thermo Fisher Scientific Inc. | Thermo Scientific Dionex ICS-4000 Capillary HPIC System (Laboratory Equipment) |  |
| Thermo Fisher Scientific Inc. | Thermo Scientific Nicolet iS50 FT-IR Spectrometer (Analytical Instrumentation) |  |
| Thermo Fisher Scientific Inc. | Thermo Scientific TruNarc (Analytical Instrumentation) |  |
| Toyota Research Institute of North America | Multi-Pass Branching Microchannel Cold Plate (Mechanical System) |  |
| United Technologies Research Center | Pure Storage (Energy Technology) |  |
| University of Manchester | NanoBPM (Process Sciences) | FMB Oxford Ltd |
| University of Michigan | High-Performance Electrostatic Comb-drive Micro-Actuators (Mechanical System) |  |
| Veeco Instruments Inc. | SPECTOR-HT Ion Beam Deposition System (Thin Film & Vacuum) |  |
| Waters Corporation | Waters ACQUITY UPC2 System (Laboratory Equipment) |  |
| Wyss Institute, Harvard Univ. | W-Ink (Materials Science) |  |
| Xerox Corporation | Xerox CiPress 325 Production Inkjet System (Process Science) |  |
| Y-12 National Security Complex | LISe (Beam Instruments) | Fisk Univ. |