

Country	Title	Institute	Industry Partner	Total
Armenia	Structural Innovation of Light Valves and Spatial Light Modulators	Yerevan State University, Federal Research and Production Center, Research Institute for Complex Testing of Optoelectronic Devices, Vavilov State Optical Institute	Beam Engineering	\$747,700
Armenia	Optimized Deposition Processes for Protective Layers on Polyacrylic Fresnel Lenses for Concentrator Photovoltaic Modules	State Engineering University of Armenia, Kharkiv Institute of Physics and Technology	Amonix, Inc.	\$750,000
Iraq	Research and Development through IRDI	Various universities and ministries	n/a	\$2,250,000
Iraq	Civilian Scientific Capacity Building	Various universities and ministries	n/a	\$1,700,000
Iraq	Business Development	Various universities and ministries	n/a	\$3,150,000
Kazakhstan	Production of high-quality tantalum	Ulba Metallurgical Plant	Tohsoh SMD	\$1,000,000
Kazakhstan	The development of pilot solar-grade silicon production to demonstrate the potential of the technology under industrial-scale conditions	Institute of Physics and Technology, All-Russian Scientific Research Institute of Chemical Technology	Solar Power Industries	\$1,000,000
Kazakhstan	Antibody-Based Diagnostics and Production for High Consequence Animal Pathogens II	State Research Agricultural Institute	New Horizons Diagnostics	\$800,000
Libya	Center for Mechanical Industries (CMI)	Al Janzur Center for Mechanical Industries	n/a	\$1,090,000
Libya	Analytical Laboratory	Tajura Renewable Energy and Water Desalination Research Center	n/a	\$205,000
Libya	Water Purification Technologies	Tajura Renewable Energy and Water Desalination Research Center	n/a	\$350,000
Libya	Jefara Ground Water Management	Tajura Renewable Energy and Water Desalination Research Center	n/a	\$355,000
Libya	Solar-Powered Desalination	Tajura Renewable Energy and Water Desalination Research Center	n/a	\$160,000
Russia	Supply of purified Th228 for Ra224 generators	Institute of Physics and Power Engineering, Kurchatov Institute of Atomic Energy	AlphaMed Inc.	\$480,000
Russia	Low Emission Advanced Power Cycle	Kurchatov Institute of Atomic Energy, Semenov Institute of Chemical Physics, Lavrentyev Institute of Hydrodynamics SB RAS, Kinetic Technologies, Ltd.	General Electric Company	\$1,233,900
Russia	Optimization and validation of bioremediation of oilfield contamination by an integrated microbial and plant system	Center for Ecological Research and BioResources Development, All Russian Institute of Biological Plant Protection, Krasnodar Experimental Forestry, Institute of Biochemistry and Physiology of Micro-Organisms, State Research Center for Applied Microbiology, Research Center of Toxicology and Hygienic Regulation of Biopreparations	Chevron Corporation	\$1,500,000

Russia	Computational Modeling of Blood Hydrodynamics and Aggregation Phenomena in the Human Cardiovascular System (aka Computational hemodynamics)	All Russian Scientific Research Institute of Experimental Physics, SarovLabs, National Hematology Research Center	Analysis & Design Application Co., Ltd.	\$1,000,000
Russia	Solidification technologies for radioactive and chemical liquid waste treatment	V. G. Khlopin Radium Institute, Siberian Chemical Combine, Mining and Chemical Combine, All Russian Scientific Research Institute of Technical Physics, Republican Engineering Technical Center	Nochar, Inc.	\$729,000
Russia	Lab scale demonstration of UREX+1a and modified TRUOX and TALSPEAK processes for LWR SNF reprocessing	V. G. Khlopin Radium Institute		\$880,000
Russia	Production of TRU-containing oxide fuel pins/targets for transmutation in the BOR-60 fast reactor	All-Russian Scientific Research Institute of Atomic Reactors	Ceramic Tubular Products, LLC	\$880,000
Russia	Development of Portable Gamma-Ray Spectrometers using CZT Technology for IAEA Inspection Applications	Petersburg Nuclear Physics Institute, All Russian Scientific Research Institute of Experimental Physics	Radiation Monitoring Devices	\$1,027,607
Russia	Development of Laser Ultrasonic Device for Residual Stress Measurement in Welded Structures	General Physics Institute	Spectra Quest, Inc.	\$1,350,000
Russia	Development of Advanced Centrifugal Pumps	Kurchatov Institute of Atomic Energy	Flowserve Corporation	\$1,000,000
Russia	Development of an Unattended Multi Object Recognition System for Remote Surveillance "MORS"	General Physics Institute	Canberra Aquila, Inc.	\$1,200,000
Russia	Development of a 1 MV Tandem Accelerator System for Boron Neutron Capture Therapy, Explosives Detection and other Proton Beam Based Applications.	Budker Institute of Nuclear Problems	Brookhaven Technology Group, Inc.	\$1,180,000
Russia	Miniature Neutron Generator for Brachytherapy Tumor Treatment	All-Russian Scientific Research Institute of Automatics	Ion Focus Technology, Inc.	\$600,000
Russia	Development of High-Specific activity and No-Carrier-Added Tin-117m for Radionuclide Therapy of Cancer	Institute of Nuclear Research, All-Russian Scientific Research Institute of Atomic Reactors, Moscow State University	Clear Vascular, Inc.	\$1,500,000
Russia	Development and Engineering Scaleup of CBAT System in Russia	All Russian Scientific Research Institute of Technical Physics	NorthWest Nuclear LLC	\$1,400,000
Russia	Application of Polymeric Agents for Improved Soil Decontamination at PO Mayak	State Unitarian Enterprise Moscow Scientific and Industrial Association "Radon", Mayak, Moscow State University	Biogenesis Enterprises, Inc.	\$990,000

Russia	Design and Prototype Qualification of a Facility for the Production of Enriched Boron	Siberian Chemical Combine	Westinghouse Electric Company	\$870,000
Russia	Manufacture of YBCO Superconducting Flexible tapes from Nanoparticle films derived from sedimentation and by Flame deposition of Nanoparticles from Solution.	Karpov Institute of Physical Chemistry - Moscow	Oxford Instruments Inc.	\$990,000
Russia	Development of Technology for Effective Removal of Arsenic	Ural Process Engineering Ltd, All Russian Scientific Research Institute of Technical Physics, Academy of Chemical Defense	Fenix Technology International, Inc.	\$714,000
Russia	Development and Demonstration of A Methodology and Software for Risk-Based Landuse Planning and Decision Support	V. G. Khlopin Radium Institute	Cambridge Environmental Inc.	\$950,000
Russia	High Current Low Energy Beam Transport (LEBT) for Ion Implanters	Institute of High Current Electronics, Institute of Theoretical and Experimental Physics	PVI - Vacuum System Technology	\$990,000
Russia	Development of The Metal Hydride Tank for Vehicles	All Russian Scientific Research Institute of Experimental Physics, V. A. Fock Institute of Physics, SarovLabs	General Motors R&D Center	\$990,000
Russia	Development of Environmentally-Friendly Dry Machining Process	Moscow Steel and Alloys Institute, Moscow State Academy of Instrumental Engineering and Information, Kurchatov Institute of Atomic Energy	General Motors R&D Center	\$990,000
Russia	Development Of A General Chemical Detector Using Tunable Diode Laser Spectroscopy	General Physics Institute	Canberra Aquila, Inc.	\$914,500
Russia	Novel Antitumor Heterocyclic Agents, Including Fluorine-Containing Compounds, Acting Via Inhibition of Protein Kinases	Chemical Diversity Research Institute, N.N. Blochin Russian Oncology Scientific Center, Zelinsky Institute of Organic Chemistry	n/a	\$950,000
Russia	Demonstration of the use of Magnetic Induction Tomography Technology in Weapons and Contraband Detection Systems	Institute of Radio-Engineering and Electronics, General Physics Institute, Lebedev Physical Institute	GE Security	\$650,000
Russia	Development, enhancement and production of bioinsecticide products	State Research Center for Applied Microbiology, State Research Center for Applied Microbiology, Sibbiopharm	Biological Targets, Inc.	\$1,000,000
Russia	Discovery and development of novel anti-arthritic agents	Institute of Highly Pure BioPreparations, Institute of Experimental Medicine, Shermikin and Ovchinnikov Institute of Bioorganic Chemistry	Cognosci, Inc.	\$350,000

Russia	Dynamic Platinum Compounds as Anticancer Agents	Institute of Highly Pure BioPreparations, Institute of Biomedical Chemistry, Research Center of Toxicology and Hygienic Regulation of Biopreparations, Shernykin and Ovchinnikov Institute of Bioorganic Chemistry	UNITECH Pharmaceuticals, Inc., Unitech	\$700,000
Russia	Clinical Implementation of Accelerator Based Neutron Capture Therapy	Institute of Physics and Power Engineering	Radiation Dynamics Inc.	\$1,000,000
Russia	Diamide Derivatives of Dipicolinic Acid in Polar Diluents as Actinide and Lanthanide Extractants	V. G. Khlopin Radium Institute, Institute of Physiologically Active Compounds of the Russian Academy of Sciences	n/a	\$843,000
Russia	Radar Mapping of Geologic Structures from Drills	Scientific Research Institute of Measuring Systems	Stolar Horizon, Inc.	\$1,150,000
Russia	Underwater Deep Sea Probe	All Russian Scientific Research Institute of Experimental Physics	Millennium Technology Inc.	\$450,000
Russia	(F.I.E.L.D.S.) Frequency Modulated Continuous Wave Short Range Radar System	Moscow Institute of Engineering Physics, CORTEC	Stolar Horizon, Inc.	\$850,000
Russia	Nuclear Materials Detector (NMD)	Ioffe Physico-Technical Institute, V. G. Khlopin Radium Institute, Krasnaya Zvezda Scientific Production Association	TRACE Photonics Inc.	\$950,000
Russia	Development of Flexible Heaters with Improved Price Performance Characteristics for Specialty Market Niches	Mining and Chemical Combine	Thermosoft International Corporation	\$950,000
Russia	Poliplen	Siberian Chemical Combine	Poliplen	\$620,000
Russia	Development of New Severe Plastic Deformation Techniques for Commercial Production of Nanostructured Materials	Ufa State Aviation Technical University, All Russian Scientific Research Institute of Technical Physics, All Russian Scientific Research Institute of Experimental Physics	Metallicum LLC	\$1,800,000
Russia	Actinide Nano-Particles Environmental Behavior Relevant to Safe Disposal of SNF and HLW in Advanced Nuclear Fuel Cycle	Moscow State University, Vernadsky Institute of Geochemistry and Analytical Chemistry, Frumkin Institute of Physical Chemistry and Electrochemistry		\$1,099,998
Russia	Enhancing Safeguards in Reprocessing of Nuclear Fuel	All Russian Scientific Research Institute of Experimental Physics, Siberian Chemical Combine, Mayak	n/a	\$500,000
Russia	Advanced Safeguards for Uranium-235 Enrichment Facilities	All Russian Scientific Research Institute of Experimental Physics, Laboratory for Microparticle Analysis	n/a	\$500,000
Russia	Development of a Cross-City Communications Network	All Russian Scientific Research Institute of Experimental Physics, All Russian Scientific Research Institute of Technical Physics, Mining and Chemical Combine, Siberian Chemical Combine	n/a	\$374,084
Russia	Development of Thermoelectric Materials	All Russian Scientific Research Institute of Experimental Physics	n/a	\$427,691

Russia	Repair Devices for Gas Pipelines Restoration	All Russian Scientific Research Institute of Experimental Physics	n/a	\$235,714
Russia	Development of Nitric Oxide Monitoring Instrumentation	All Russian Scientific Research Institute of Experimental Physics	n/a	\$512,000
Russia	ERA-5 electronic borehole device	All Russian Scientific Research Institute of Experimental Physics	Binar	\$500,000
Russia	Network Hardware and Software Support	Mining and Chemical Combine	n/a	\$557,571
Russia	Production of Thermo Glass	Mining and Chemical Combine	n/a	\$435,714
Russia	High Energy Ion Technology of Interfacial Thin Film Coatings for Electronic, Optical, and Industrial Applications	Institute of High Current Electronics	Phygen, Inc.	\$506,000
Russia	Ultra-low-energy ion beam processing of materials	Institute of High Current Electronics, Bochvar All-Russian Scientific Research Institute of Inorganic Materials- Siberia Branch	4Wave, Inc.	\$1,130,500
Russia	High-Efficiency, High-Power Accelerator Development	Budker Institute of Nuclear Problems	Euclid Techlabs, LLC	\$1,000,000
Russia	Microbial Diversity for Novel Biotechnology Applications	VECTOR - State Research Institute of Virology and Biotechnology, SibEnzyme, Institute of Volcanology, Center for Ecological Research and BioResource Development, Durmishidze Institute of Biochemistry and Biotechnology, Institute of Microbiology	Diversa Corporation	\$2,100,000
Russia	Development of Plasma Ablation for Soft Tissue and Bone Surgery	Institute of High Current Electronics	ArthroCare Corporation	\$1,395,000
Russia	Nanometer Structures for Fuel Cells and Displays	Efremov Scientific Research Institute Of Electrophysical Apparatus, Agency for Technology Development	Wostec, Inc.	\$999,000
Russia	Active Electromagnetic Array Technology Demonstration for Direct Hydrocarbon Detection	Soliton Scientific and Research Center, Institute of Exploration Geophysics	KMS Technologies	\$1,700,000
Russia	Advanced Welding and Fabrication Techniques for Al-Li Alloys	All Russian Scientific Research Institute of Technical Physics, E.O. Paton Electric Welding Institute, Yuzhnoe State Design Office, Youzhmash Company, Kamensk-Uralski Metallurgical Plant, All-Russian Institute of Light Alloys	Boeing Space Systems	\$1,500,000
Russia	Solutions for Digital Video Transmission Technology	Strela	Multimax Inc.	\$670,000
Russia	Ceramic HEPA Filter	Bochvar -- All-Russian Scientific Research Institute of Inorganic Materials, V. G. Khlopin Radium Institute, Kurchatov Institute of Atomic Energy	Flanders Filters, Inc.	\$1,000,000
Russia	Manufacturing and Characterization of Ultra Pure Ferrous Alloys	Levitatsia-S- LTD	Caterpillar Inc.	\$1,000,000

Russia	Breast Cancer Diagnostic System: Data Analysis and Algorithm Development	Biofil	BioTelligent	\$1,000,000
Russia	The Accelerator-Detector Complex for Photonuclear Detection of Hidden Explosives	Lebedev Physical Institute, Central Design Bureau, Institute of High Energy Physics, The Moscow Instrument Automation Institute, Innovative Technologies Center	Valley Forge Composite Technologies	\$1,800,000
Russia	Outside Rarefaction Shock Wave Cutter for Oil-Gas Platform Removal	All Russian Scientific Research Institute of Experimental Physics	Halliburton Energy Services, Inc.	\$350,000
Russia	Water Treatment Using Advanced Ultraviolet Light Sources	Institute of High Current Electronics, All Russian Scientific Research Institute of Experimental Physics	Teknichal Services, LLC	\$1,000,000
Russia	Development, Manufacturing and Preparation for Serial Production of Low-Noise Seismometers	Scientific Research Institute of Impulse Technique, JSC Ramenskiy Instrument-Making Plant	Refraction Technology Inc.	\$901,000
Russia	Radioactive Medical Carbon-14 Waste Management and Recovery using AC Plasma Torch Technology	Soliton Scientific and Research Center, OKBM, Institute of Electrophysics	ISOFLEX USA	\$1,000,000
Russia	Development of Low Cost Transparent Ceramics for Optical Engineering Applications	Institute of Applied Physics	General Atomics	\$850,000
Russia	Filament Winding of Anisogrid Fuselage Structure	Central Research Institute for Special Machinery	Boeing Space Systems	\$1,000,000
Russia	Seversk Catalysts	Siberian Chemical Combine, Boreskov Institute of Catalysis, All-Russia Science Research and Design Institute of Power Engineering Technology-Novosibirsk, Plant of Chemical Concentrates	n/a	\$500,000
Russia	Design for Positron Emission Tomography Center in Snezhinsk	All Russian Scientific Research Institute of Technical Physics	n/a	\$401,000
Russia	Special Infrared Crystals for Medical and Sensor Applications	Znanie-Synthezis, Moscow State University, Institute for Laser and Information Technologies, Sechenov Moscow Medical Academia High Technologies Laboratory, Kuban State University	Akamai Physics	
Russia	Development of Effective Decontamination Methods and Technology	Institute for Highly Pure Biopreparatiions, VECTOR - State Research Institute of Virology and Biotechnology, Institute of Biochemistry and Physiology of Micro-Organisms	Isonics Corporation	\$1,360,000
Russia	Therapeutic Monoclonal Antibodies	Research Center for Molecular Diagnostics and Therapy, Shemyakin Institute of Bioorganic Chemistry, Institute of Genetics and Selection of Industrial Organisms, State Research Center for Applied Microbiology	Battelle Memorial Institute	\$839,000
Russia	Fluorinated Analogs of Bioactive Garlic Components	All Russian Research Institute of Chemistry and Technology, State Institute of Organic Synthesis Technology	Life Time Pharmaceuticals	\$918,000
Russia	Variable Modulus Polyurethane and Polyisocyanurate Polymers	Nesmeyanov Institute of Organo-Element Compounds	Bailey-Parks Urethane	\$900,000

Russia	Microfluidic (Lab on a Chip) PCR Array Cartridge for Biological Screening in a Hand Held Device	Engelhardt Institute of Molecular Biology	CombiMatrix	\$1,370,000
Russia	Pesticide and Biological Control Agents for Improved Crop Production	All Russian Institute of Biological Plant Protection, All Russian Research Institute of Phytopathology	Western Ag Resources	\$1,000,000
Russia	High-Performance Structural Materials for Commercial Aerospace Applications	All Russian Institute of Light Alloys, Institute of Metals Superplasticity Problems, IMASH, National Institute of Aviation Technologies, Strela	Boeing Space Systems	\$1,000,000
Russia	Antibody-Based Diagnostics and Production for High Consequence Animal Pathogens	Russian State Diagnostic and Prevention Center for Human and Animal Diseases, D.I. Ivanovski Institute of Virology, All-Russian Institute for Animal Health, Institute of Experimental and Clinical Veterinary Medicine, GAMALEYA	New Horizons Diagnostics	\$990,000
Russia	Development and Demonstration of Cs-131 Production and Separation Technology	All-Russian Scientific Research Institute of Atomic Reactors	Iso-Ray Medical, Inc.	\$576,000
Russia	Developing a Process for producing Ultra High-Purity Cesium with Low Isotopic and Chemical Impurities from Natural (Non-Enriched) Barium Targets	Institute of Nuclear Materials	IsoRay	\$540,000
Russia	Vermiculite Hydrophobization	Mining and Chemical Combine	OOO Vermiculite	\$257,000
Russia	Modular Construction	Mining and Chemical Combine	SITI, Ltd.	\$342,729
Russia	Micro-Arc Oxidation	Mining and Chemical Combine	JSC Russian Profile	\$523,142
Russia	Development of Humanitarian Soil Dielectric Mapper	Spektr-Konversia	Stolar Research, Inc.	\$1,500,000
Russia	Back Support System: An Adaptive Cushion for Relieving & Preventing Back Pain	Spektr-Konversia	Numotech, Inc.	\$1,605,000
Russia	Universal Leg	Spektr-Konversia	Numotech, Inc.	\$1,300,000
Russia	Optical Fiber Technology for Industrial Laser Applications	Troitsk Institute for Innovation and Fusion Research	Volius, Inc.	\$1,500,000
Russia	Advanced Medical Device for Oxygen Generation	Spektr-Konversia	Numotech, Inc.	\$1,000,000
Russia	Commercialization of VNIIEF Explosive Resistant Container	All Russian Scientific Research Institute of Experimental Physics	n/a	\$500,000
Russia	Development of Porous Metal Dental Implants	All Russian Scientific Research Institute of Experimental Physics	n/a	\$319,000
Russia	Device for Measurement of Wool Diameter	All Russian Scientific Research Institute of Experimental Physics	n/a	\$260,000
Russia	Device for Measurement of Animal Geometry	All Russian Scientific Research Institute of Experimental Physics	n/a	\$276,000

Russia	Development of Light and Heat Distribution Coatings	Siberian Chemical Combine	n/a	\$163,000
Russia	Development of Sorbents for Cleanup of Liquid Radioactive Waste	Siberian Chemical Combine, All Russian Scientific Research Institute of Experimental Physics	n/a	\$490,000
Russia	Piezoelectric Transducers for Building Monitor Systems	Siberian Chemical Combine, All Russian Scientific Research Institute of Experimental Physics	n/a	\$642,000
Russia	Development of Housing Reconstruction Bureau	Mining and Chemical Combine	n/a	\$343,000
Ukraine	Photonuclear production of radioisotopes	Kharkiv Institute of Physics and Technology	AlphaMed Inc.	\$990,000
Ukraine	Process Development: Low Cost, Continuous Nano-Scale Purification Technology of Powdered Carbonaceous Materials for Applications in Electrochemical Energy Storage Systems and Electroconsolidation@ Process Technology	L. M. Litvinenko Inst. of Physical Organic and Coal Chemistry; Kharkiv Institute of Physics and Technology; National University of Technologies and Design	Superior Graphite Company	\$1,579,000
Ukraine	Ceramic forming and seals	Donetsk Institute of Physics and Engineering	Ceramatec Inc.	\$900,000
Ukraine	Advanced Grinding Technology for Bio-Source Materials	TexMet	Pinnacle Technology, Inc.	\$250,000
Ukraine	Flash-Butt Welding Phase II	E.O. Paton Electric Welding Institute	MAVERIX, Inc.	\$707,000
Ukraine	Development of a Bio-equivalent UV Dosimeter to Monitor the Capacity for Vitamin-D Synthesis of Sunlight	Institute of Physics of the Ukrainian National Academy of Science	Rhyolite Technology Group Inc	\$300,000
Ukraine	Development of Protective Coating Technologies for Gas Turbine Engine Airfoils	Pratt and Whitney – Paton	United Technologies	\$1,000,000
Ukraine	Cost Effective Production of Powder Metallurgy Titanium Components for High Volume Commercial Applications	Ukraine Institute of Metal Physics; CES Ukraine Company	ADMA Products Inc	\$997,000
Ukraine	Development of a Commercial Plasma Chemical Reactor in the Ukraine	Kharkiv Institute of Physics and Technology	Campbell Applied Physics, Inc	\$1,000,000
Ukraine	Development and Commercialization of Straw Fired Boilers of 100-1000 kW in Ukraine	Scientific Engineering Center "Biomass" Ltd.	The Center for Strategic Alliance	\$936,100
Ukraine	Evaluation of Electron Beam Physical Vapor Deposition Process (EBPVD) Process for the Fabrication of Low Cost Solid Oxide Fuel Cell (SOFC) Components	International Center for Electron Beam Technology	Fuel Cell Energy, Inc.	\$970,000

Ukraine	Electrohydraulic Forming of Sheet Metal for Structural Automotive Applications	Institute of Pulse Research and Engineering; St. Petersburg Electrotechnical University; Kharkiv Aviation Institute	Ford Motor Company	\$900,000
Ukraine	Improved Biological and Chemical Delivery Vehicle for Optimum Use of Soil Microflora	Zabolotny Institute of Microbiology and Virology; Interdepartmental Scientific-Technological Center, Agrobiotech	Northwest Agricultural Products	\$697,700
Uzbekistan	Medical Isotope Development at the Institute of Nuclear Physics, Tashkent	Institute of Nuclear Physics	Isonics Corporation	\$850,000