

THIRD ROUND APPLICANTS										
Count	Project ID	Project Title	First Name	Last Name	Title	Organization	City	Abstract	Total Budget	Fund Request
1	091400-0042	Northwest Indiana Digital Imaging Center	Brian	Kennedy	Associate Professor	Indiana University School of Medicine	Gary	The ability to capture, quantitate and transmit images in digital format is revolutionizing the infrastructure supporting biomedical research. Biomedical research programs require digital imaging capability to remain competitive in the current funding env	\$464,278.00	\$232,000.00
2	091500-0043	Development of a Near Real Time Expert Diagnostic System for Monitoring Networks	Karla	Yale	President	Yale Systems, Inc.	INDPLS	Project Summary: Abstract The objective of the proposed project for the National Atmospheric Deposition Program (NADP), which monitors the deposition of chemicals in precipitation, is the development of an inexpensive means to deliver real-	\$0.00	\$794,000.00
3	091900-0066	Botanical Center for Age-Related Diseases	Connie	Weaver	Distinguished Professor and Department Head	Purdue University	West Lafayette	The aim of this grant is to create opportunities for commercial interests in Indiana using the newly NIH funded Botanical Center for Age-Related Diseases. Currently, health claims for botanicals are unregulated. Our proposed research on the efficacy and	\$11,283,638.00	\$2,532,045.00
4	092000-0067	Mathematical programming products to more successfully tailor radiation treatments	Mark	Langer	Clinical Professor	Indiana University Medical School	Indianapolis	This project will create a new method for designing individual treatment plans in radiation therapy, a procedure used today for hundreds of thousands patients/yr in the US. The method will raise tumor dose without compromising physician stated normal tis	\$925,371.00	\$925,371.00
5	092100-0069	Evaluation of Erosion Patterns in a Blast Furnace Hearth Using a Computational Fluid Dynamics (CFD) Model	Chenn	Zhou	Professor of Mechanical Engineering	Purdue University Calumet	Hammond	The U.S. steel industry produces approximately 100 million tons of steel annually. Almost all the large integrated steel companies have a major facility located in Northwest Indiana. Blast furnaces are used to convert iron oxide to molten iron. Maximiz	\$2,241,812.00	\$1,198,425.00
6	092100-0071	The Northeast Indiana Food Technology, Research, and Application Center (NIFTRAC)	Debra	Miller	Senior Nutrition Scientist	Eridania Beghin-Say American (Central Soya)	Fort Wayne	Functional foods (FF) are similar to conventional foods, but modified to enhance physiological function beyond the delivery of simple nutrients. The goal of this project is to create the Northeast Indiana Food Technology, Research and Application Center (	\$15,522,934.00	\$2,122,934.00
7	092100-0072	Enhanced Orthopedic Implant Surfaces	Patrick	Dunn	Professor	University of Notre Dame	Notre Dame	This proposal concerns the development of new, more efficient methods to prepare the surfaces of orthopedic implants. Current implant-surface preparation methods involve many steps, based upon past, proven technology. Application of these methods to newer	\$543,702.00	\$303,189.00
8	092100-0073	Vehicle Emergency Warning System (VEWS)	Sharon	Knapp	Vice President	Safety Technologies, Inc. (STI)	Fishers	This proposal is submitted within the category of Science and Technology Development and Communications. This project is submitted to begin with basic Research and Development of Wireless Communications particular to the transportation safety industry and	\$5,000,000.00	\$850,000.00
9	092100-0074	Independent Speech Recognition Capability Onboard Robot to Physically Assist Stroke Victims	Karla	Yale	President	Yale System, Inc.	INDPLS	The overall objective is the integration of voice interaction into a wide variety of non-classical application areas and the development of protocols surrounding its evaluation and development. The specific goals of this project are to put speech recog	\$0.00	\$1,225,900.00
10	092200-0076	Materials Processing for Accelerometer and Sensor Manufacture	Keith	Bowman	Professor	Purdue University	West Lafayette	The goal of this collaborative research effort is to develop new piezoelectric materials and processing methods for high temperature sensor, accelerometer, and actuator devices. The partnership of Purdue University and Keramos and Etalon, two well-estab	\$846,242.00	\$355,042.00
11	092500-0079	Complete Development and Application Testing on Method and Apparatus for Secure Document Exchange Over a	Robert	Wichlinski	President & CEO	ON-SITE Computer, LLC	Merrillville	SEDEX.net is a product presently in development which provides secure electronic document exchange via the Internet.	\$700,000.00	\$400,000.00
12	092500-0082	Indiana Consortium for Research, Development, and Job Transitioning in High-Performance Temperature	Issam	Mudawar	Professor	Purdue University	West Lafayette	Breakthroughs in many of today's cutting-edge commercial and defense technologies are becoming critically dependent upon the ability to safely control the temperatures of devices subject to stringent requirements such: (i) very low or very high temperatur	\$2,409,811.00	\$1,984,811.00
13	092500-0093	Development of technology for the improvement of soybean flaking processes	Matthew	Krane	Assistant Professor	Purdue University	West Lafayette	The goal of this proposal is the technology development to improve the market position of two Indiana-based companies. Shenango Industries is the only U.S. manufacturer of centrifugally cast rolls and is working to become a supplier for grain processors.	\$631,776.00	\$445,376.00
14	092600-0106	Center of Excellence for Laser Processing and Diagnostics	Yung	Shin	Professor	Purdue University	West Lafayette	The purpose of this proposal is to establish a Center of Excellence for Laser Processing and Diagnostics. The two primary functions of the center are to: i) develop critical technologies in laser processing and diagnostics for various manufacturing appl	\$5,978,439.00	\$1,491,939.00
15	092600-0114	Indiana Center of Excellence for Animal Functional Genomics	Christopher	Bidwell	Associate Professor	Purdue University	West Lafayette	We propose to establish a Center of Excellence in Animal Functional Genomics to facilitate the development and utilization of genomics research tools and techniques. The Center will unite faculty members from Purdue and Indiana Universities who have the c	\$2,525,245.00	\$2,525,245.00

16	092600-0115	Advanced Spinal Surgery Concepts	James	Mason	Associate Professor	University of Notre Dame	Notre Dame	In this proposal, three new implant technologies for the repair and strengthening of the human spine are presented with each technique relying on new materials, manufacturing and implant technology. The techniques can be divided into two classes, spinal f	\$4,245,482.00	\$1,998,987.00
17	092600-0127	Biotechnology for High Value Products to Enrich Indiana Agribusiness	Dr. Donald L.	Johnson	Vice President/ Technology (Retired)	Grain Processing Corporation	Muscatine	Two specific tasks are proposed for three marketable products that can be commercialized in about two years if development work is successfully carried out as proposed herein. The project applies biotechnology to Indiana agricultural production materials	\$3,761,602.00	\$1,811,071.00
18	092700-0130	Development of an Infrared Endoscope and Procedure for Pre Cancer Abnormalities and Early Cancer Detection	Jay	Gore	Vincent P. Reilly Professor	Purdue University	West Lafayette	An infrared bronchoscope based on novel infrared technology developed in Indiana for pre and early detection of cancer will be designed and assembled. The instrument will be demonstrated in a human trial in the large air passages in lungs. Pre-cancer and	\$2,529,449.00	\$1,008,046.00
19	092700-0132	An Advanced Software Architecture for Medical Reporting	Patrick	Jamieson, M.D.	CEO	Medical Reporting Solutions, Inc.	Indianapolis	Medical Reporting Solutions (MRS) intends to create and market a breakthrough service that will significantly improve medical reporting. With our technology partner, the Purdue Speech and Language Processing Laboratory (SLPL) we will build a computer syst	\$2,710,000.00	\$1,000,000.00
20	092700-0139	Active Decision Networks for Web-Based Services	Shimon Y.	Nof	Professor	Purdue University	West Lafayette	Automated decision support is important in nearly all organizations. Increasingly, in Enterprise Resource Planning and e-Business, on-line real-time responses are expected from companies. Prompt decisions are needed in planning, e.g., competitive quotatio	\$4,276,841.00	\$1,489,841.00
21	092700-0141	BIOSEP: Advanced Biotechnology Separations Equipment and Services	Paul	Todd	Program Manager	Space Hardware Optimization Technology, Inc.	Greenville	GOAL: To provide high quality advanced bioprocess research equipment and services at affordable prices to industrial, government, and academic research laboratories. DESCRIPTION: During the proposed three-year project novel bioseparation instruments will	\$5,743,587.00	\$1,879,350.00
22	092700-0147	Franchising an Indiana-Based Cellulosic Ethanol Production Technology	Nancy W. Y.	Ho	Senior Research Scientist & Group Leader	Purdue University	West Lafayette	This grant will perfect and commercialize an innovative, well-developed cellulosic ethanol technology, developed by Dr. Nancy Ho at Purdue University. This technology permits the effective conversion of cellulosic biomass to ethanol, and will have a sign	\$1,889,770.00	\$1,889,770.00
23	092700-0149	Systems Engineering of Biochips for Detection of Foodborne Pathogens	Michael R.	Ladisch	Director and Distinguished Professor	Purdue University	West Lafayette	An interdisciplinary team in the Schools of Engineering, Agriculture, and Management at Purdue University, together with Indiana industry, will catalyze science and technology commercialization of biochips - microfluidic computer chips to which proteins a	\$3,772,770.00	\$1,558,533.00
24	092700-0155	Application of PureFlow Process to Industrial, Commercial Wastewater Cleanup Applications	Edward	Jackson	Chairman, CEO	JATECH Scientific, Inc.	Knightstown	The PureFlow Process (PFP) is a world wide patented process designed and developed to render medical, pathogenic and embalming wastes non-infectious and non-hazardous. These wastes can then be handled as sanitary wastes and be disposed of by traditiona	\$0.00	\$2,000,000.00
25	092700-0161	Rapid and Safe Process Development of Value-added Products Using Integrated Intelligent Systems	Venkat	Venkatasubramanian	Dr.	Integrated Process Solutions, Inc.	West Lafayette	In the pharmaceuticals and advanced materials sectors, the process of successfully bringing a product discovery to the marketplace is complex, expensive, time-consuming, as well as information, knowledge, and computation intensive. It usually takes an eno	\$3,160,000.00	\$960,000.00
26	092800-0166	Development of low jet noise aircraft engines	Anastasios	Lyrintzis	Associate Professor	Purdue University	West Lafayette	The regional and corporate aircraft engine market's rapid expansion will be severely compromised, unless jet noise is drastically reduced. Rolls-Royce, Indianapolis, with a commanding share of 37% in this sector of the world market, may lose business to	\$2,441,258.00	\$1,053,531.00
27	092800-0167	Targeted Delivery for Diagnosis and Treatment	W. Page	Faulk	President/Chief Scientific Officer	Faulk Pharmaceutical Research, LLC	Indianapolis	Faulk Pharmaceutical Research (FPR) will pioneer the Targeted Delivery of drugs and isotopes to diseased cells while sparing normal cells. This Platform Technology utilizes ligands such as transferrin to deliver drugs to receptors, such as transferrin re	\$15,000,000.00	\$5,000,000.00
28	092800-0174	Retaining Technology Talent	Donna	Gastevich	President	Indiana Information Technology Association	Indianapolis	The growth of a technology-based economy depends on an adequate supply of human capital. The state&#8217;s universities not only produce more technology talent than most other states; but the students are some of the best-trained in the world. Placement	\$1,700,000.00	\$500,000.00
29	092800-0175	Novel Rapid Assays for the Life Science Research Market	Marius	Brizgys	Owner	Micratech, LLC	Indianapolis	Micratech, LLC is intending to develop and commercialize unique and novel rapid assays for the Life Sciences research market segment. The format is a dipstick with a visual detection system based on colored microparticles. These assays will provide the sa	\$1,250,000.00	\$530,980.00
30	092800-0178	Technical Assistance via the Internet: Rapid Response Problem Solving for Indiana Manufacturing Companies	James	Solberg	Professor	Purdue University	West Lafayette	Manufacturing companies in Indiana face formidable competition from around the world. Small companies, in particular, are often challenged by urgent technical problems that are critical to their success, yet require more specialized expertise to deal with	\$1,181,497.00	\$577,094.00
31	092800-0182	Integrated Chem- and Bio-Information Systems	Zina	Ben-Miled	Assistant Professor	Indiana University Purdue University Indianapolis	Indianapolis	Recent innovations in the life sciences have led to the development of numerous databases. While providing scientists with an integrated view of these databases can accelerate discoveries, support for interoperability among these databases is still inadeg	\$455,599.00	\$155,771.00

32	092900-0184	Indiana Consortium for Wireless Communications	Saul	Gelfand	Professor of Electrical and Computer Engineering	Purdue University	W. Lafayette	Wireless communications is a \$50 billion dollar business in the United States alone, and its importance to the national and Indiana state economy is growing rapidly. To succeed in this area, a multidisciplinary approach is required, which includes expert	\$3,146,549.00	\$1,122,827.00
33	092900-0189	Application of Remote Sensing Technology into a Municipal GIS for Storm Water Management	Stephen	Luther	Vice President	Beam, Longest and Neff, L.L.C.	Indianapolis	Municipal government in Indiana and throughout the United States has been charged with the responsibility for collecting, separating from waste water collection systems, treating (if required) and discharging into the waters of the United States, storm wa	\$369,599.00	\$231,599.00
34	092900-0190	Global Computer Automation Project	David	Vinzant	President	Vinzant, Inc.	Hobart	The Global Computer Automation Project is a multifaceted project that will grow a small, established Indiana company by completing its software product and adding to its underlying sales and marketing infrastructure. Vinzant, Inc. has been developing and	\$4,800,000.00	\$1,000,000.00
35	092900-0191	High-Responsivity, High-Speed, Large-Area Photodetectors for Fiber Optic Receivers	Michael	Melloch	President and CTO	OptoLynx, Inc.	West Lafayette	This is a proposal for research, development, and commercialization of an improved class of high-speed, high-responsivity, large-area photodetectors for application to fiber-optic data and telecommunications. OptoLynx will be incorporating technologies fr	\$1,995,536.00	\$997,205.00
36	092900-0194	ICER - The Indiana Cosortium for E-commerce Research	Alok	Chaturvedi	Associate Professor	Purdue University	West Lafayette	Abstract: The importance of e-commerce, as a business, technical and social phenomenon, cannot be overestimated. Research on e-commerce is well under way in several different disciplines, including engineering, computer science, management, economics and	\$3,169,930.00	\$1,980,689.00
37	092900-0206	Process Migration in Support of a Single-System Image	Vincent	Freeh		University of Notre Dame	Notre Dame	The predominant computer infrastructure is a network of workstations (or PCs) that are loosely connected. Unfortunately, these systems are hard to manage and do not fully utilize available resources. Progeny Linux Systems, based in Indianapolis, is market	\$1,338,300.00	\$661,696.00
38	092900-0225	Integrated Technology Approach to Advance Indiana Wood Products Industry	Rado	Gazo	Assistant Professor	Purdue University	West Lafayette	The Indiana wood products industry ranks first in the United States in the production of wood office furniture, wood kitchen cabinets and several other products. In fact, the wood products industry is the sixth largest employer in Indiana and contributes	\$1,551,498.00	\$424,227.00
39	092900-0226	Creating an Integrated Internet Based Clinical Delivery and Practice Management System for Delivery of Comprehensive	Allen	Sugerman	Executive Vice President & CFO	Focal Point, LLC	Fort Wayne	Health care in the United States represents 14.5% of GDP or \$1.4 trillion dollars and represents the largest segment of GDP. Physician services represent \$272 billion of this amount. With the growth in expenditures physicians have been significantly im	\$2,194,862.00	\$1,685,433.00
40	092900-0228	Health Risk Reduction ASP Software Project	Robert	Plankenhor n	President/CEO	Summex Corporation	Indianapolis	Summex will develop an ASP (application service provider) system for the "renting" of its health risk reduction software system via the Internet. The Company is a developer of software for population health management and sells wellness program interventi	\$3,100,000.00	\$1,200,000.00
41	092900-0229	Design, Development, and Commercialization of Building Informatics	Deepak	Gandhi	President	Porteum	Fort Wayne	Porteum, a new Indiana company, will conduct research in building informatics and pursue commercialization activities to build a high-tech business in the construction industry.	\$3,800,683.00	\$1,380,377.00
42	092900-0230	Low Cost Carbon-Carbon Technology for Pervasive Economic GROWTH	Thomas	Siegmund	Assistant Professor	Purdue University	West Lafayette	The proposal describes a program to develop low-cost, functionally graded (FG) carbon-carbon composites for use in a wide range of new applications including automotive structural and heat transfer components, orthopedic implants, friction materials for t	\$9,476,820.00	\$1,949,339.00
43	092900-0234	Development of Columbus InfoTech Park	Brooke	Tuttle	President	Economic Development Board	Columbus	On behalf of the Columbus community, a two-year grant totaling \$3,706,000 is requested to support infrastructure elements critical to the planned development of an Information Technology Park. These elements are:	\$34,156,000.00	\$3,706,000.00
44	092900-0235	Smart TRIP Steel Material Commercialization	Russell	Kirchner	President	High Performance Alloys, Inc.	Tipton	Smart materials, such as TRIP steel, are those that are capable of serving as engineering structural materials, but also have the capacity to provide further utility through another function. In this case the structural material is also self-diagnostic, w	\$1,998,000.00	\$1,998,000.00
45	092900-0237	Power Wheelchair Conversion for Autonomous Operation	Steven	Skaar	Professor	University of Notre Dame	Notre Dame	In-state industrial conversion of Invacare power wheelchairs is proposed to apply a new technology for autonomously driven power-wheelchair operation within the home, office or institution. The new technology by which autonomous navigation is enabled	\$1,047,091.00	\$372,578.00
46	092900-0238	Center of Excellence: Institute for Integrated Materials-to-Product Design	James	Caruthers	Professor	Chemical Engineering, Purdue University	West Lafayette	A Center of Excellence in Integrated Materials-to-Product Design will be established. The Institute for Integrated Materials-to-Product Design will develop a new integrated approach to manufacturing for a wide range of consumer and industrial goods.	\$1,409,907.00	\$1,409,907.00
47	092900-0243	A Bacterial Sensor for Medical Diagnostics Based on Bio-Inorganic Nanocontainer Technology.	Agnes	Ostafin	Assistant Professor	University of Notre Dame	Notre Dame	The goal of this project is to use bio-inorganic "nanocontainer" (BIN) materials developed at the University of Notre Dame to stimulate the development and commercialization of a revolutionary type of dipstick sensor that can be used to expose trace bacte	\$3,574,372.00	\$1,555,523.00

48	092900-0246	Development and Clinical Practice of Dental Superplastic (SPF) Forming Machine	Yoshiki	Oshida	Professor, Dental Materials Division, Department of Restorative Dentistry	Indiana University School of Dentistry	Indianapolis	The use of superplastic formation of metals, mainly titanium, for the dental, medical, aviation and military fields is a revolutionizing technology. IU owns unique patented technology for building a Superplastic Forming (SPF) Machine with diverse fabricat	\$1,590,514.00	\$681,528.00
49	092900-0248	Research and Technology Development on Intelligent Design and Manufacturing	Ming	Zhou	Associate Professor	Indiana State University	Terre Haute	Artificial Intelligence (AI) is an effective tool for solving large-scale complex decision-making problem and plays a central role in information technology. This project will implement multidisciplinary research on intelligent design and manufacturing an	\$413,964.00	\$413,964.00
50	092900-0250	Volumetric Spectroscopy for In Vivo Optical Diagnostics	Kevin	Webb	Professor	Purdue University	West Lafayette	Diagnostic measurement using optical techniques holds the potential to revolutionize medical practices in areas such as blood glucose analysis and cancer detection. The advantage of optical techniques is that they can be non-invasive and safe. However, t	\$2,615,844.00	\$1,192,804.00
51	092900-0251	Development and Commercialization of a New Control System for the Petrochemical, Oil, and Gas	Jerry	Lyons	President	Innovative Controls, Inc.	Fort Wayne	Support by the 21st Century Research-Technology Fund is requested for the development of a new control system for the petrochemical, oil, and gas industries. The technology that will be developed by Innovative Controls, Inc. and Purdue University will rev	\$3,415,578.00	\$1,728,080.00
52	092900-0252	Center for Nano Science & Technology: Biofluidics	Alan	Seabaugh	Professor of Electrical Engineering	University of Notre Dame	Notre Dame	The University of Notre Dame's Center for Nano Science & Technology proposes to expand its research base into the emerging field of biofluidics - the processing of biological fluids in the interior of semiconductor integrated circuits. This is a natural e	\$2,557,999.00	\$1,562,712.00
53	092900-0253	Lung Function Testing in Large and Small Animals	Laurent	Couetil	Dr.	Purdue University	West Lafayette	Respiratory diseases in large animals are clinically important because they represent the number one economic loss in the cattle industry and are the second most common disease among adult horses. Respiratory diseases in large animals are also clinically	\$902,967.00	\$664,431.00
54	093000-0260	Environmentally Safe Anisotropic Polymer and Low-temperature Process	Sawarn Kumar	Khanna	President & CEO	S.K. Consultants, Inc.	Carmel	The innovation relates to a unique approach, which offers a lead-free anisotropic polymer, and also has the advantage of a very low-temperature soldering process. This process will have a major impact on the behavior of electronic components by guiding c	\$2,117,119.00	\$1,534,924.00
55	093000-0263	The Indiana Digital Acoustic Genome Project	Daniel J	Field	Vice President, Advanced Technology	Klipsch Audio Technologies	Indianapolis	The State of Indiana is faced with an opportunity to build upon its strong heritage as a leading producer of loudspeakers and audio electronics by significantly altering the way tomorrow's loudspeakers are designed, built, and used. Klipsch Audio Te	\$1,288,708.00	\$881,271.00
56	093000-0264	A Statistical Application Service Provider	Yudaya	Sivathanu	President	Statscape Inc.	West Lafayette	Statscape Inc., in collaboration with the Computer Science Department of Purdue University proposes to establish a Statistical Application Service Provider (SASP) in Indiana. Application Service Providers represent the biggest growth segment in the infor	\$1,664,259.00	\$1,156,118.00
57	093000-0267	Advanced Gear Technology for Appliance, Automotive and Industrial Applications	Matt	Hawkins	President	Rolling Contact Gear Company	Greenwood	Research into advanced gear tooth forms and related materials processing will be performed. Advanced plastic gears intended to benefit the large Indiana appliance industry will be made and tested. Advanced metal gears that will benefit the large Indiana a	\$5,203,000.00	\$1,993,000.00
58	093000-0269	Indiana Health and Human Services Data Center	Thomas	Pavkov	Associate Professor of Psychology/Director Children's Services	Purdue University Calumet	Hammond	This proposal seeks funds for the creation of the Indiana Health and Human Services Data Center. The goals for the Center include: supporting multidisciplinary research and development of technologies for use in the health and human services industry; pro	\$3,571,456.00	\$3,038,617.00
59	100100-0273	Technalysis/GM Die-Casting Simulations Initiative	Akin	Ecer	President	Technalysis Incorporated	Indianapolis	Technalysis is planning to enhance the capabilities of the software, dieCAS, originally developed by General Motors (GM) over the last ten years. The goals are: a) to modify the software to analyze complicated parts more accurately, b) to provide advanced	\$1,157,000.00	\$480,000.00
60	100100-0276	Desktop ASP, Inc.	David	Shouse	President / CEO	Desktop ASP, Inc.	Columbus	Commercial launch of an Application Service Provider (ASP) company, positioned to grow into an integrated technology solutions company providing Web hosting, business-to-business exchange hosting, ERP application hosting and network management solutions.	\$14,019,000.00	\$5,000,000.00
61	100100-0277	Open source technology servers for the small business	Carolyn	Tinsley	President	Server Partners, LLC	Indianapolis	Small businesses are a vital part of Indiana's and the United States' economy and workforce. Reliable and affordable information technology solutions are needed to allow small businesses to be competitive in today's business environment. Server Partners	\$2,594,260.00	\$740,000.00
62	100100-0278	Systemized approach to the management of chronic disease for community based physicians	Elaine	Habig, MD	President	Care Partners, LLC	Carmel	The management of chronic diseases requires a great deal of time for the community based physician. Patient compliance with testing schedules, therapy requirements and taking prescribed medications all significantly impact outcomes for the patient. The p	\$1,561,000.00	\$625,000.00
63	100100-0279	Development of Advanced Computer Models to Improve Manufacturing of Pharmaceutical Products	Hasan	Akay	Vice President	Technalysis Incorporated	Indianapolis	A two-year R&D project is proposed with a partnership between Technalysis and Eli Lilly. Technalysis' current computational fluid dynamics models will be modified to accurately and efficiently analyze mixing/stirring of Lilly's pharmaceutical products. La	\$1,021,000.00	\$488,750.00

64	100100-0280	Manufacture, Marketing and Testing of Capsibiol-T	John	Van Etten	President	Scientific Motive Systems Inc.	Terre Haute	This project is to develop, manufacture, market and continue testing of Capsibiol-T, a product derived from natural sources with anticancer health benefits. Capsibiol-T is a mixture of green tea catechins and red pepper(Capsicum) vanilloids with proven ef	\$11,000,000.00	\$994,768.00
65	100200-0296	Development and Commercialization of a New Generation of Cookware for Cooking Without Use of Water	Boris	Blyukher	Associate Professor	Indiana State University	Terre Haute	The purpose of this project is to develop, test, and commercialize a new generation of cookware for waterless and fatless food cooking. There is a strong tendency in our time to use stackable cookware for food preparation without salt, water, and fat, th	\$430,994.00	\$430,994.00
66	100200-0299	E-commerce and Indiana Business...Putting It All Online	Gary	Messick	Technology Coordinator	Indiana Institute of Technology	Ft.Wayne	Indiana Institute of Technology, along with Bercot "Unique Children's Wear" and Debrand Fine Chocolates endeavor to form an alliance that will effectively combine the technology expertise of IIT along with the business acumen of two successful female entr	\$1,515,000.00	\$498,000.00
67	100200-0300	Intelligent Instrumentations for Reliable Early Detection of Auditory Disorders	Leteri	Tsoukalas	Professor	Purdue University	W. Lafayette	We propose to develop an intelligent system for reliable screening of auditory disorders at birth. In the course of ongoing research collaboration with Beltone Electronics Corporation (a national manufacturer of hearing aids) we came across startling new	\$207,825.00	\$207,825.00
68	100200-0303	Thermoacoustic Computed Tomography (TCT) Breast Imaging Device	William	Kiser, Ph.D.	Director of Engineering	OptoSonics, Inc.	Indianapolis	OptoSonics, an Indiana based private company, has developed the world's first Thermoacoustic Computed Tomography (TCT) Scanner. This scanner has been successfully used to image breast cancer. TCT promises to improve on current breast cancer detection by c	\$4,210,233.00	\$778,287.00
69	100200-0305	The Bloomington Technology Incubator Project	Linda	Williamson	Executive Director	Bloomington Economic Development Corporation	Bloomington	This proposal is the result of discussions between local government officials, private industry representatives, and the leaders of educational institutions in the Bloomington area. The Bloomington Technology Incubator Project has come together, bas	\$4,595,000.00	\$1,953,000.00
70	100200-0308	A Center for Superconducting Device Development	Howard A	Blackstead	Professor	University of Notre Dame	Notre Dame	This proposal requests grant funding to establish a Center of Excellence for the development of superconducting electronic devices. A two year objective will be to demonstrate proof of concept Josephson-Junction devices incorporating the latest high tempe	\$1,065,320.00	\$752,132.00
71	100200-0309	Center for Indiana Geospatial Information Technology	J. C.	Randolph	Professor	Indiana University	Bloomington	Faculty and professional staff from Indiana University and Purdue University will collaborate with a high technology company, Pangaea Information Technologies, to establish the Center for Indiana Geospatial Information Technology (CIGIT).	\$3,471,091.00	\$1,809,395.00
72	100200-0310	CREATE Indiana: a Center of Excellence	Ellen	Engleman	President & CEO	Electricore	Indianapolis	We propose to establish the "CREATE Indiana" Center of Excellence, (the Center for Research and Education for Advanced Transportation TEchnology in Indiana). This Indiana-based, collaborative alliance will be the key catalyst for establishing Indian	\$0.00	\$2,000,000.00
73	100200-0311	Proposal to Design, Build, and Commercialize eToolit, an ASP for the Industrial Tooling and Equipment Industry	Christopher	Gildea	Chief Executive Officer	eToolit, Inc.	Fort Wayne	eToolit is an application service provider (ASP) and Web-based hub that streamlines business-to-business transactions and electronically links manufacturers and their industrial tooling and equipment vendors. This Internet solution integrates and simplif	\$2,439,384.00	\$461,979.00
74	100200-0312	Establishment of a Combinatorial Center of Excellence in Indiana: A Unique Industrial-Academic Partnership	Martin	O'Donnell	Professor	Department of Chemistry-IUPUI	Indianapolis	Academic and small business researchers in the State of Indiana do not have ready access to the tools of combinatorial chemistry. We propose to establish an Indiana University Center of Excellence to provide just such a cluster of combinatorial tools and	\$3,449,061.00	\$1,730,314.00
75	100200-0313	High Throughput Chemical Development Synthesizer Using the Camile TG Software Platform	Spencer	Vawter	President/CEO	Camile Products, LLC	Indianapolis	This project develops and completes, starting from a production prototype through market launch, the commercialization of a multi-channel, high throughput chemical synthesizer intended for rapid chemical development in the pharmaceutical and chemical indu	\$1,764,378.00	\$750,000.00
76	100200-0314	Laboratory, Full Scale Assessment and Optimization of Eco Oxygen Technologies Hardware	Alex	Oak	President	Eco Oxygen Technologies, LLC (An Indiana LLC)	Indianapolis	Dissolving oxygen in wastewater is the foremost commercial means of treating polluted water.  To date, the primary means of adding oxygen to water is through the	\$1,757,000.00	\$724,000.00
77	100200-0315	Respirable Pharmaceutical/Medicinal Sprays	Paul E.	Sojka	Professor of Mechanical Engineering	Purdue Univeristy	West Lafayette	Two distinct commercial products will be developed having a common link. The first is an inhalables dispenser for pharmaceutical/medicinal sprays. The second is a rheometer. The rheometer is necessary to evaluate the viscoelasticity of the inhalable th	\$1,671,165.00	\$1,196,423.00
78	100200-0316	Novel Consolidated Diabetes Monitoring System	Mary	Gaunt-Kloepfer	Senior Scientist	Micronix Innovative Medical Diagnostics, Inc.	Carmel	The applicant organizations propose to undertake a collaborative effort to develop ultra-miniaturized, minimally invasive test tab devices for estimating concentrations of diabetes-related parameters (analytes) in whole blood. The devices dose and transp	\$2,500,000.00	\$1,646,064.00
79	100200-0318	Center for Non-Metallic Research	Thomas	Enneking	VP-Academic Affairs and Professor of Civil and Environmental Engineering	Tri-State University	Angola	Establishment of the Center for Non-Metallic Research (CNMR) on the campus of Tri-State University will provide a unique opportunity to couple the best research in the country built on the strength of the Indiana academic community with the manufacturing	\$11,156,750.00	\$3,388,750.00

80	100200-0319	Establishment of the Indiana Center for Vaccine Research (ICVR)	Suresh	Mittal	Associate Professor of Molecular Virology	Purdue University	West Lafayette	The success of vaccination programs over the years has unquestionably demonstrated that immunization is the best method to control infectious diseases. Moreover, recent studies have demonstrated the feasibility of developing vaccines against cer	\$3,302,992.00	\$2,100,950.00
81	100200-0321	Optical Spectrum Analyzer for Telecommunications	Terry	Kinney	President	Control Development, Inc	South Bend	Abstract The exploding domain of DWDM telecom communications has pushed the need for high performance instrumentation such as optical spectrum	\$1,672,087.00	\$661,163.00
82	100200-0322	Development and Demonstration of an Economical Process for Recycling of Waste Oxides in the Steel Industry	Les	Chapman	Research Director	Alternative Recycling LLC	Chesterton	The proposed program is directed at developing and demonstrating a process for the beneficial reuse and recycling of waste metallic oxides that have been and are being generated at integrated steel mills, electric arc furnace-based mini mills and paint pi	\$2,135,000.00	\$1,075,000.00
83	100200-0324	Facilitating Informed Medical Decisions Via Online Interactive Medical Decision Models	Harry	Smolen	President	Medical Decision Modeling Inc.	Indianapolis	The broad objective of this proposal is to position MDM as the worldwide market and technical leader in the dissemination of interactive Internet-accessible medical decision models. MDM's library of decision models will provide an easily-accessible sourc	\$4,700,000.00	\$1,559,380.00
84	100200-0328	To Create the Most Cutting Edge, State-Of-The Art, Technology and Media Facility Infrastructure in the State of	Karie	Casserly	Executive Director	Fort Wayne Production Academy	Fort Wayne	It is the intension of Fort Wayne Production Academy (FWPA) to create the most cutting edge, state-of-the-art, technology and media facility infrastructure in the State of Indiana.	\$5,351,758.00	\$5,000,000.00
85	100200-0332	WorldBoard Alliance for Pervasive Computing: Creating Place-dependent Access to Wireless Internet Content and	Sonny	Kirkley	CEO	Information in Place, Inc.	Bloomington	This Alliance will set the foundation for a pervasive computing industry in Indiana. Formed around the WorldBoard Platform, it is optimized for the wireless delivery of personalized, location-based information, tools, and services to mobile devices. Membe	\$4,529,560.00	\$1,759,550.00
86	100200-0339	Creation of a Telemedicine Product	John	Parr	Associate Professor of Electrical Engineering	University of Evansville	Evansville	The proposed project seeks to create a telemedicine solution to drug compliance utilizing technology by combining cellular phone technology, the Internet and electronic sensors in an integrated package. The product will be named the MedPhone and will be	\$198,070.00	\$136,070.00
87	100200-0345	The Indiana Medical Web Consortium	Douglas	Horner	President	Medical Informatics Engineering, Inc.	Fort Wayne	A significant gap exists in the U.S. market for the implementation of health care information technology. A significant barrier for physicians to implement an electronic medical record (EMR) is a solution for managing and integrating information from othe	\$4,310,688.40	\$1,419,108.40
88	100200-0350	Assessing the Effects of Berry Anthocyanins on Cardiovascular Function and Diabetes	Jan	Mills	President	Artemis International, Inc.	Fort Wayne	One of the more exciting developments in the nutraceutical and functional food industry is products derived from fruit phytochemicals. With changes in scientific, legislative and market forces, there is increasing emphasis on understanding the relationshi	\$1,328,020.00	\$328,675.00
89	100300-0351	Innovative Tools for Technologically Enhanced Education	James. J.	Walker	Associate Professor	Purdue University	West Lafayette	Technology has proven to enhance the effectiveness of current educational pedagogy. We&#8217;ve launched a creative blueprint that utilizes the power of technology to develop an innovative pathway-to-the-future of interactive learning.	\$3,486,717.00	\$2,430,735.00
90	100300-0352	Development of a Self-Powered System for Control of Zebra Mussels Dreissena polymorpha on Unberwater	Umesh A.	Korde	Ph.D.	Indiana Institute of Technology	Fort Wayne	There has been a significant growth in the population of parasitic Zebra mussel species in a number of commercially and ecologically important lakes in Northern Indiana. It costs area Utility and Gas companies up to \$250,000 per plant each year to clean	\$1,087,210.00	\$931,810.00
91	100300-0353	Nontoxic, Safe Aircraft Unicoat System	Art	Usmani	President & Senior Scientist	Usmani Development Company	Indianapolis	We will combine pre-treatment, primer, and topcoat into one-component, single-layered, water based aircraft coatings to replace the currently used three-layered cumbersome and costly coatings. Most importantly, our coatings will be safe for the environme	\$1.00	\$1.00
92	100300-0354	A Project to Mathematically Model a Wet Process for Recycling Fiber Glass Insulation Scrap into Commercial Board	Gordon	Hart	Manager, Research & Development	Engineered Fiber Technology, Inc.	Morristown	Engineered Fiber Technology, Inc. (EFTEC) developed a wet process which successfully converts scrap fiber glass into commercial board on a pilot line. Recently, Performance Contracting Group (PCG) purchased EFTEC and subsequently constructed a production	\$522,300.00	\$261,200.00
93	100300-0356	Synermed XLM, High Throughput Clinical Chemistry Analyzer	Jerry	Denney	CEO	Synermed International, Inc.	Westfield	Clinical chemistry testing is the most frequently-used scientific tool in diagnostic medicine. Accurate, timely chemistry results influence the optimal course of patient treatment and the cost-effective use of resources.	\$5,158,461.00	\$1,987,177.00
94	100300-0357	Drawing and Fabricating High Strength Copper Alloys to Ultra Fine Sizes for Medical Electronics	Mike	Connolly	President	Rea Engineered Wire Products (REWP)	n	Rea Engineered Wire Products (REWP), a division of Rea Magnet Wire Co., over the next two years plans to develop ultra-fine drawn and stranded conductors from high strength copper alloys. This is required to meet the needs of rapidly developing medical el	\$4,000,000.00	\$1,600,000.00
95	100300-0358	Indiana Drug Development Consortium - Vitamin-Based Drug Delivery of anticancer agents.	P. Ron	Ellis	Preisident/CEO	Endocyte, Inc.	West Lafayette	Although there have been significant advances in its diagnosis and treatment, cancer remains the second leading cause of death in the U.S. Among the major challenges to effective cancer treatment are the development of better diagnostic drugs that detect	\$15,000,000.00	\$2,000,000.00

96	100300-0359	FIT-OUT: 21st Century Building Technology	Stephen	Kendall	Associate Professor of Architecture	Ball State University	Muncie	n	\$3,035,867.00	\$1,493,929.00
97	100300-0361	Noninvasive Treatment of Prostate Cancer by High Intensity Focused Ultrasound (HIFU) and by HIFU +Gene	David	Quigley	Chief Operating Officer & CFO	Focus Surgery, Inc.	Indianapolis	This proposal outlines a joint research proposal between Indiana University School of Medicine (Department of Urology), Purdue University (Department of Veterinary Clinical Sciences), and Focus Surgery, Inc. to combine high Intensity Focused Ultrasound (H	\$8,500,000.00	\$754,552.00
98	100300-0362	Center for Excellence in Spatial Internet Technologies	Jill	Saligoe-Simmel	Program Director	Polis Center at IUPUI	Indianapolis	Spatial Internet Technologies is a field of study that integrates the fundamentals of geographic information systems (GIS) science, all the means used to acquire, manage, analyze and deliver spatial data, and interdisciplinary areas such as information te	\$5,900,000.00	\$1,805,000.00
99	100300-0363	Indiana Center for Pharmaceutical Research and Development (ICPRD)	Stephen R.	Bryn	Ph. D.	Purdue University	West Lafayette	The overall goal is to establish the Indiana Center for Pharmaceutical Research and Development (ICPRD) under the direction of Stephen R. Byrn, Ph. D. The ICPRD's focus will be to develop leading-edge technologies/candidates (three described herein) into	\$5,293,635.00	\$2,093,635.00
100	100300-0364	LocalWeb4U.com	Robert	Yadon	Director, Center for Information and Communication Sciences	Ball State University	Muncie	LocalWeb4U is a company delivering information and services that allow businesses, nonprofit organizations, and individuals to interact in a geographic specific locale through the Internet. The development of LocalWeb4U technologies has been a collaborat	\$2,954,944.00	\$2,794,198.00
101	100300-0365	Artificial Bone Substitute	Art	Usmani	President & Senior Scientist	Usmani Development Company	Indianapolis	A combination of polymeric matrix, inorganic salts, and other biologically active materials will be utilized to induce bone formation. This process will be examined in vitro and in limited animal model studies. This medical product is projected to be in	\$600,000.00	\$600,000.00