



# Technology Validation and Start-Up Fund

2013 Request for Proposals

## Phase 1 Application Information Page

<b>This Application:</b> <input type="checkbox"/> Does <input checked="" type="checkbox"/> Does Not		include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)	
<b>Lead Applicant's Legal Organization Name:</b>		Austen BioInnovation Institute in Akron	
<b>Technology Transfer Office Contact</b>		<b>Name:</b> Vince Kazmer	
		<b>Title:</b> Chief Operating Officer	
		<b>Phone Number:</b> 330-572-7547	
		<b>Email:</b> vkazmer@abiakron.org	
<b>Project Title:</b>		Digital Wound Assessment	
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>			61808677
<b>Total Project Budget</b>		\$98,100.00	<b>Ohio Third Frontier Funds Requested</b>
			\$49,050.00
<b>Project Focus:</b>		<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	
		<input checked="" type="checkbox"/> Software Applications for Business and Healthcare	
		<input type="checkbox"/> Aeropropulsion and Power Management	
		<input type="checkbox"/> Sensing and Automation Technologies	
		<input type="checkbox"/> Agribusiness	
		<input type="checkbox"/> Situational Awareness and Surveillance Systems	
		<input type="checkbox"/> Fuel Cells and Energy Storage	
		<input type="checkbox"/> Solar Photovoltaics	
		<input type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

Vince Kazmer

Typed Name of Authorizing Agent

*Vincent P. Kazmer*  
Signature

Chief Operating Officer

Title of Authorizing Agent

April 16, 2013

Date

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# Technology Validation and Start-Up Fund

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## Phase 1 Application Information Page

<b>This Application:</b> <input type="checkbox"/> Does <input checked="" type="checkbox"/> Does Not		include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)	
<b>Lead Applicant's Legal Organization Name:</b>		<b>Austen BioInnovation Institute in Akron</b>	
<b>Technology Transfer Office Contact</b>		<b>Name: Vince Kazmer</b>	
		<b>Title: Chief Operating Officer</b>	
		<b>Phone Number: 330-572-7547</b>	
		<b>Email: <a href="mailto:vkazmer@abiakron.org">vkazmer@abiakron.org</a></b>	
<b>Project Title:</b>		<b>Intubation Mouth Guard</b>	
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>			<b>13/561,234</b>
<b>Total Project Budget</b>		<b>\$93,400.00</b>	<b>Ohio Third Frontier Funds Requested</b>
			<b>\$46,700.00</b>
<b>Project Focus:</b>		<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	
		<input type="checkbox"/> Software Applications for Business and Healthcare	
		<input type="checkbox"/> Aero propulsion and Power Management	
		<input type="checkbox"/> Sensing and Automation Technologies	
		<input type="checkbox"/> Agribusiness	
		<input type="checkbox"/> Situational Awareness and Surveillance Systems	
		<input type="checkbox"/> Fuel Cells and Energy Storage	
		<input type="checkbox"/> Solar Photovoltaics	
		<input checked="" type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

Vince Kazmer

Typed Name of Authorizing Agent

*Vince P. Kazmer*  
Signature

Chief Operating Officer

Title of Authorizing Agent

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<b>Lead Applicant's Legal Organization Name:</b>		Austen BioInnovation Institute in Akron	
<b>Technology Transfer Office Contact</b>		<b>Name:</b> Vince Kazmer	
		<b>Title:</b> Chief Operating Officer	
		<b>Phone Number:</b> 330-572-7547	
		<b>Email:</b> <a href="mailto:vkazmer@abiakron.org">vkazmer@abiakron.org</a>	
<b>Project Title:</b>		Self-Retaining Radiolucent Femoral Retractor	
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>			61811147
<b>Total Project Budget</b>		\$77,460.00	<b>Ohio Third Frontier Funds Requested</b>
			\$38,730.00
<b>Project Focus:</b>		<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	
		<input type="checkbox"/> Software Applications for Business and Healthcare	
		<input type="checkbox"/> Aeropropulsion and Power Management	
		<input type="checkbox"/> Sensing and Automation Technologies	
		<input type="checkbox"/> Agribusiness	
		<input type="checkbox"/> Situational Awareness and Surveillance Systems	
		<input type="checkbox"/> Fuel Cells and Energy Storage	
		<input type="checkbox"/> Solar Photovoltaics	
		<input checked="" type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

Vince Kazmer

Typed Name of Authorizing Agent

*Vince P. Kazmer*  
Signature

Chief Operating Officer

Title of Authorizing Agent

April 16, 2013

Date

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## Phase 1 Application Information Page

This Application:  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

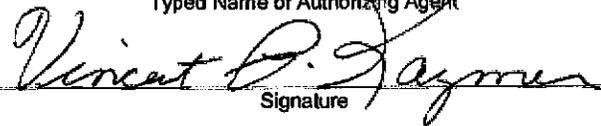
<b>Lead Applicant's Legal Organization Name:</b>	<b>Austen BioInnovation Institute in Akron</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Vince Kazmer</b>
	<b>Title: Chief Operating Officer</b>
	<b>Phone Number: 330-572-7547</b>
	<b>Email: <u>vkazmer@abiakron.org</u></b>

**Project Title:** Ultra Low Volume Syringe / Pipette

**Patent Number, Patent Application Number, or Copyright Registration Number** 61722304

<b>Total Project Budget</b>	\$98,500.00	<b>Ohio Third Frontier Funds Requested</b>	\$49,250.00
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<b>Project Focus:</b>	<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> Software Applications for Business and Healthcare
	<input type="checkbox"/> Aero propulsion and Power Management	<input type="checkbox"/> Sensing and Automation Technologies
	<input type="checkbox"/> Agribusiness	<input type="checkbox"/> Situational Awareness and Surveillance Systems
	<input type="checkbox"/> Fuel Cells and Energy Storage	<input type="checkbox"/> Solar Photovoltaics
	<input checked="" type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>Vince Kazmer</b> Typed Name of Authorizing Agent	<b>Chief Operating Officer</b> Title of Authorizing Agent
 Signature	<b>April 16, 2013</b> Date

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Date Received	Proposed D.P.
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# Technology Validation and Start-Up Fund Program

2013 Request for Proposals

## Phase 1 Application Information Page

This Application:  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

**Lead Applicant Institution** Kent State University

**Technology Transfer Office Contact**  
Name: Suguna Rachakonda  
Title: Associate Director, Technology Commercialization  
Phone Number: 330-672-3553  
Email: [srachako@kent.edu](mailto:srachako@kent.edu)

**Project Title:** Smart Responsive Scaffolds for 3D/4D Cell Culture and Regenerative Medicine Applications

**Patent Number, Patent Application Number, or Copyright Registration Number** Filed on 4/15/13

**Total Project Budget** \$57,190 **Ohio Third Frontier Funds Requested** \$28,595

**Project Focus:**

<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
<input checked="" type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> <b>Solar Photovoltaics</b>

Suguna Rachakonda

Associate Director, Technology Commercialization

Typed Name of Authorizing Agent

Title of Authorizing Agent

Signature

4/16/13  
Date

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# Technology Validation and Start-Up Fund Program

2013 Request for Proposals

## Phase 1 Application Information Page

This Application:	<input type="checkbox"/> Does	<input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
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Lead Applicant Institution	Kent State University
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Technology Transfer Office Contact	Name: Suguna Rachakonda
	Title: Associate Director, Technology Commercialization
	Phone Number: 330-672-3553
	Email: <a href="mailto:srachako@kent.edu">srachako@kent.edu</a>

Project Title:	Easily Reconfigurable, High Resolution, Patterned Liquid Crystal Alignment Layers via Ink-jet Printing of Metal Nanoparticles and Semiconductor Quantum Dots
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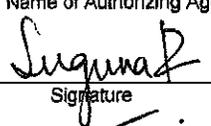
Patent Number, Patent Application Number, or Copyright Registration Number	Filed on 4/15/13
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Total Project Budget	\$93,054	Ohio Third Frontier Funds Requested	\$46,527
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Project Focus:	<input checked="" type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> Software Applications for Business and Healthcare
	<input type="checkbox"/> Aeropropulsion and Power Management	<input checked="" type="checkbox"/> Sensing and Automation Technologies
	<input type="checkbox"/> Fuel Cells and Energy Storage	<input type="checkbox"/> Situational Awareness and Surveillance Systems
	<input type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> Solar Photovoltaics

Suguna Rachakonda

Associate Director, Technology Commercialization

Typed Name of Authorizing Agent	Title of Authorizing Agent
 Signature	4/16/13 Date

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# Technology Validation and Start-Up Fund Program

2013 Request for Proposals

## Phase 1 Application Information Page

<b>This Application:</b>	<input type="checkbox"/> Does <input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
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<b>Lead Applicant Institution</b>	The Ohio State University
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Christopher Hirsch
	<b>Title:</b> New Ventures Strategist
	<b>Phone Number:</b> 614-292-5602
	<b>Email:</b> hirsch.48@busfin.osu.edu

<b>Project Title:</b>	Inorganic Membranes for Freshwater Recovery
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	8,337,588
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input checked="" type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> <b>Solar Photovoltaics</b>

<b>Ray Atilano</b>	<b>Executive Director</b>
Typed Name of Authorizing Agent	Title of Authorizing Agent
	4/16/13
Signature	Date

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Date Received	Proposal ID #
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# Technology Validation and Start-Up Fund Program

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## Phase 1 Application Information Page

This Application:  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant Institution</b>	Kent State University
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Suguna Rachakonda
	<b>Title:</b> Associate Director, Technology Commercialization
	<b>Phone Number:</b> 330-672-3553
	<b>Email:</b> <a href="mailto:srachako@kent.edu">srachako@kent.edu</a>

<b>Project Title:</b>	Smart Energy-saving Liquid Crystal Window
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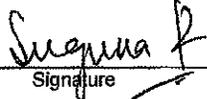
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	US Patent Application 61/343,734/PCT
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> <b>Solar Photovoltaics</b>

Suguna Rachakonda

Associate Director, Technology Commercialization

<b>Typed Name of Authorizing Agent</b>	<b>Title of Authorizing Agent</b>
	
<b>Signature</b>	<b>Date</b>
	4/16/13

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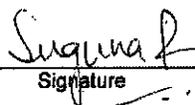


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## Phase 1 Application Information Page

<b>This Application:</b> <input type="checkbox"/> Does <input checked="" type="checkbox"/> Does Not		include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)	
<b>Lead Applicant's Legal Organization Name:</b>		Kent State University	
<b>Technology Transfer Office Contact</b>		<b>Name:</b> Suguna Rachakonda	
		<b>Title:</b> Associate Director, Technology Commercialization	
		<b>Phone Number:</b> 330-672-2692	
		<b>Email:</b> srachako@kent.edu	
<b>Project Title:</b>		Fast Electrooptic Switches Based on Liquid Crystals	
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>			61/744,927
<b>Total Project Budget</b>		\$100,000	<b>Ohio Third Frontier Funds Requested</b>
			\$50,000
<b>Project Focus:</b>		<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	
		<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>	
		<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	
		<input checked="" type="checkbox"/> <b>Sensing and Automation Technologies</b>	
		<input type="checkbox"/> <b>Agribusiness</b>	
		<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>	
		<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	
		<input type="checkbox"/> <b>Solar Photovoltaics</b>	
		<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>Suguna Rachakonda</b> Typed Name of Authorizing Agent	<b>Associate Director, Technology Commercialization</b> Title of Authorizing Agent
 Signature	4/16/13 Date

For Ohio Development Services Agency Use Only





# Technology Validation and Start-Up Fund

## 2013 Request for Proposals

### Phase 1 Application Information Page

This Application:  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant's Legal Organization Name:</b>	Case Western Reserve University
<b>Technology Transfer Office Contact</b>	Name: Michael Haag, MS, MBA
	Title: Interim Director, Technology Management
	Phone Number: 216-368-6106
	Email: <a href="mailto:mhaag@case.edu">mhaag@case.edu</a>

<b>Project Title:</b>	Image-based Risk Score for Predicting Response to Therapy for ER+ Breast Cancer Patients
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	PCT/US2010/022891
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> Software Applications for Business and Healthcare
	<input type="checkbox"/> Aeropropulsion and Power Management	<input type="checkbox"/> Sensing and Automation Technologies
	<input type="checkbox"/> Agribusiness	<input type="checkbox"/> Situational Awareness and Surveillance Systems
	<input type="checkbox"/> Fuel Cells and Energy Storage	<input type="checkbox"/> Solar Photovoltaics
	<input checked="" type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

Michael J. Haag <small>Typed Name of Authorizing Agent</small>	Interim Director Technology Management <small>Title of Authorizing Agent</small>
 <small>Signature</small>	4/17/13 <small>Date</small>

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Date Received	Proposal ID#
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<b>Lead Applicant Institution</b>	The Ohio State University
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<b>Technology Transfer Office Contact</b>	<b>Name:</b> Christopher Hirsch
	<b>Title:</b> New Ventures Strategist
	<b>Phone Number:</b> 614-292-5602
	<b>Email:</b> hirsch.48@busfin.osu.edu

<b>Project Title:</b>	Personalized Spine Assessment
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	N/A
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input checked="" type="checkbox"/> Software Applications for Business and Healthcare
	<input type="checkbox"/> Aeropropulsion and Power Management	<input checked="" type="checkbox"/> Sensing and Automation Technologies
	<input type="checkbox"/> Fuel Cells and Energy Storage	<input type="checkbox"/> Situational Awareness and Surveillance Systems
	<input type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> Solar Photovoltaics

Ray Atilano

Executive Director

Typed Name of Authorizing Agent

Title of Authorizing Agent

*Ray Atilano*  
Signature

4/16/13  
Date

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Date Received	Proposal ID #
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<b>This Application:</b>	<input type="checkbox"/> Does	<input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
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<b>Lead Applicant's Legal Organization Name:</b>	Cleveland Clinic
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Grant Hoffman
	<b>Title:</b> Innovations Officer
	<b>Phone Number:</b> 216-445-8392
	<b>Email:</b> hoffmag2@ccf.org

<b>Project Title:</b>	Reinforced Extracellular Matrix Device for Ventral Hernia Repair
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	US 13/663,938
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input checked="" type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>Jacqueline Whatley</b> Typed Name of Authorizing Agent	<b>Sr. Director, Office of Sponsored Research &amp; Programs</b> Title of Authorizing Agent
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 Signature	<i>April 17, 2013</i> Date
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<b>Lead Applicant Institution</b>	The Ohio State University
-----------------------------------	---------------------------

<b>Technology Transfer Office Contact</b>	<b>Name:</b> Christopher Hirsch
	<b>Title:</b> New Ventures Strategist
	<b>Phone Number:</b> 614-292-5602
	<b>Email:</b> hirsch.48@busfin.osu.edu

<b>Project Title:</b>	Total Animal
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	N/A
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input checked="" type="checkbox"/> Software Applications for Business and Healthcare
	<input type="checkbox"/> Aero propulsion and Power Management	<input type="checkbox"/> Sensing and Automation Technologies
	<input type="checkbox"/> Fuel Cells and Energy Storage	<input type="checkbox"/> Situational Awareness and Surveillance Systems
	<input type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> Solar Photovoltaics

Ray Atilano	Executive Director
Typed Name of Authorizing Agent	Title of Authorizing Agent
	4/16/13
Signature	Date

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**This Application:**     Does     Does Not    include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant's Legal Organization Name:</b>	Ohio University
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Robert R. Silva, Jr
	<b>Title:</b> Director, Technology Transfer Office
	<b>Phone Number:</b> 740-593-0976
	<b>Email:</b> silvajr@ohio.edu

**Project Title:**    A Matlab Toolkit for 3D Visualization of Real and Synthetic Flight Data

**Patent Number, Patent Application Number, or Copyright Registration Number**    US2012/041863 & 61/767,881

**Total Project Budget**    \$100,000    **Ohio Third Frontier Funds Requested**    \$50,000

**Project Focus:**

<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> Software Applications for Business and Healthcare
<input type="checkbox"/> Aeropropulsion and Power Management	<input type="checkbox"/> Sensing and Automation Technologies
<input type="checkbox"/> Agribusiness	<input checked="" type="checkbox"/> Situational Awareness and Surveillance Systems
<input type="checkbox"/> Fuel Cells and Energy Storage	<input type="checkbox"/> Solar Photovoltaics
<input type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

Robert R. Silva, Jr. Typed Name of Authorizing Agent	Director, Technology Transfer Office Title of Authorizing Agent
 Signature	April 17, 2013 Date

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**This Application:**  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant's Legal Organization Name:</b>	<b>The University of Toledo</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Stephen Snider</b>
	<b>Title: AVP Technology Transfer and Associate General Counsel</b>
	<b>Phone Number: 419-530-6225</b>
	<b>Email: <a href="mailto:stephen.snider@utoledo.edu">stephen.snider@utoledo.edu</a></b>

**Project Title:** **Non-toxic Antibacterial Surfactant/Microgel Formulations**

**Patent Number, Patent Application Number, or Copyright Registration Number** 61/657,787

<b>Total Project Budget</b>	\$88,986	<b>Ohio Third Frontier Funds Requested</b>	\$44,493
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**Project Focus:**

<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
<input type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>James Trempe, PhD</b> Typed Name of Authorizing Agent	<b>VP for Research</b> Title of Authorizing Agent
 Signature	<b>4/15/13</b> Date

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Date Received	Proposal ID
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# Technology Validation and Start-Up Fund

## 2013 Request for Proposals

### Phase 1 Application Information Page

<b>This Application:</b>	<input type="checkbox"/> Does	<input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
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<b>Lead Applicant's Legal Organization Name:</b>	<b>The University of Toledo</b>
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Stephen Snider
	<b>Title:</b> AVP Technology Transfer and Associate General Counsel
	<b>Phone Number:</b> 419-530-6225
	<b>Email:</b> <a href="mailto:stephen.snider@utoledo.edu">stephen.snider@utoledo.edu</a>

<b>Project Title:</b>	<b>Bio-polyamides precursors for production of Nylon 11</b>
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	13/294,510
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<b>Total Project Budget</b>	\$80,304	<b>Ohio Third Frontier Funds Requested</b>	\$40,152
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<b>Project Focus:</b>	<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input checked="" type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>James Trempe, PhD</b>	<b>VP for Research</b>
Typed Name of Authorizing Agent	Title of Authorizing Agent
	4/15/13
Signature	Date

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# Technology Validation and Start-Up Fund

## 2013 Request for Proposals

### Phase 1 Application Information Page

**This Application:**  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant's Legal Organization Name:</b>	<b>The University of Toledo</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Stephen Snider</b>
	<b>Title: AVP Technology Transfer and Associate General Counsel</b>
	<b>Phone Number: 419-530-6225</b>
	<b>Email: <a href="mailto:stephen.snider@utoledo.edu">stephen.snider@utoledo.edu</a></b>

**Project Title:** Injectgraft

**Patent Number, Patent Application Number, or Copyright Registration Number** 12/596,221

<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input checked="" type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>James Trempe, PhD</b> Typed Name of Authorizing Agent	<b>VP for Research</b> Title of Authorizing Agent
	<b>4/15/13</b> Date

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Date Received	Proposal ID
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# Technology Validation and Start-Up Fund

## 2013 Request for Proposals

### Phase 1 Application Information Page

**This Application:**  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant's Legal Organization Name:</b>	<b>The University of Toledo</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Stephen Snider</b>
	<b>Title: AVP Technology Transfer and Associate General Counsel</b>
	<b>Phone Number: 419-530-6225</b>
	<b>Email: <a href="mailto:stephen.snider@utoledo.edu">stephen.snider@utoledo.edu</a></b>

**Project Title:** Nano-biosensor for Infection in Tissue

**Patent Number, Patent Application Number, or Copyright Registration Number** 61/775,939

<b>Total Project Budget</b>	\$50,000	<b>Ohio Third Frontier Funds Requested</b>	\$25,000
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<b>Project Focus:</b>	<input type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input checked="" type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input checked="" type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>James Trempe, PhD</b> Typed Name of Authorizing Agent	<b>VP for Research</b> Title of Authorizing Agent
<i>J. Trempe</i> Signature	4/15/13 Date

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Date Received	Proposal ID #
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# Technology Validation and Start-Up Fund

## 2013 Request for Proposals

### Phase 1 Application Information Page

**This Application:**     Does     Does Not    include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

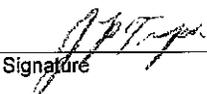
<b>Lead Applicant's Legal Organization Name:</b>	<b>The University of Toledo</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Stephen Snider</b>
	<b>Title: AVP Technology Transfer and Associate General Counsel</b>
	<b>Phone Number: 419-530-6225</b>
	<b>Email: <a href="mailto:stephen.snider@utoledo.edu">stephen.snider@utoledo.edu</a></b>

**Project Title:**    Nanoelectronic Memristor Device

**Patent Number, Patent Application Number, or Copyright Registration Number**    13/298,601

**Total Project Budget**    \$100,000    **Ohio Third Frontier Funds Requested**    \$50,000

<b>Project Focus:</b>	<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>James Trempe, PhD</b> Typed Name of Authorizing Agent	<b>VP for Research</b> Title of Authorizing Agent
 Signature	<b>4/15/13</b> Date

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# Technology Validation and Start-Up Fund

2013 Request for Proposals

## Phase 1 Application Information Page

**This Application:**  Does  Does Not include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)

<b>Lead Applicant's Legal Organization Name:</b>	Kent State University
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Suguna Rachakonda
	<b>Title:</b> Associate Director, Technology Commercialization
	<b>Phone Number:</b> 330-672-2692
	<b>Email:</b> srachako@kent.edu

**Project Title:** Novel Non-Photobleaching Fluorescent Magnetic Nanoparticles as Advanced Bioimaging Agents

**Patent Number, Patent Application Number, or Copyright Registration Number** 61725738

<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

<b>Suguna Rachakonda</b> Typed Name of Authorizing Agent	<b>Associate Director, Technology Commercialization</b> Title of Authorizing Agent
 Signature	4/17/13 Date

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Date Received	Proposal ID #
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# Technology Validation and Start-Up Fund Program

2013 Request for Proposals

## Phase 1 Application Information Page

<b>This Application:</b>	<input type="checkbox"/> Does	<input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
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<b>Lead Applicant Institution</b>	<b>Kent State University</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Suguna Rachakonda</b>
	<b>Title: Assoc. Director, Technology Commercialization</b>
	<b>Phone Number: 330-672-3553</b>
	<b>Email: srachako@kent.edu</b>

<b>Project Title:</b>	<b>High Speed Plasmonic Spatial Light Modulators with Low Driving Voltages</b>
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<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	<b>Filed 4/15/13</b>
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<b>Total Project Budget</b>	<b>\$92,140</b>	<b>Ohio Third Frontier Funds Requested</b>	<b>\$46,070</b>
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<b>Project Focus:</b>	<input checked="" type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	<input type="checkbox"/> <b>Solar Photovoltaics</b>

Suguna Rachakonda

**Assoc. Director, Technology Commercialization**

Typed Name of Authorizing Agent

Title of Authorizing Agent

*Suguna*  
Signature

4/15/13  
Date

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# Technology Validation and Start-Up Fund

## 2013 Request for Proposals

### Phase 1 Application Information Page

<b>This Application:</b>	<input type="checkbox"/> Does	<input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
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<b>Lead Applicant's Legal Organization Name:</b>	<b>The University of Akron</b>
<b>Technology Transfer Office Contact</b>	<b>Name: Elyse Ball</b>
	<b>Title: Project Manager</b>
	<b>Phone Number: 330-972-6532</b>
	<b>Email: eb38@uakron.edu</b>

<b>Project Title:</b>	<b>Low-Cost Integrated Wireless Sensor Network for Agriculture Hydroponic Systems</b>
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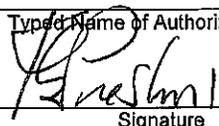
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>	61/692,984
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<b>Total Project Budget</b>	\$100,000	<b>Ohio Third Frontier Funds Requested</b>	\$50,000
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<b>Project Focus:</b>	<input type="checkbox"/> <b>Advanced Materials</b> (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys)	<input type="checkbox"/> <b>Software Applications for Business and Healthcare</b>
	<input type="checkbox"/> <b>Aeropropulsion and Power Management</b>	<input checked="" type="checkbox"/> <b>Sensing and Automation Technologies</b>
	<input type="checkbox"/> <b>Agribusiness</b>	<input type="checkbox"/> <b>Situational Awareness and Surveillance Systems</b>
	<input type="checkbox"/> <b>Fuel Cells and Energy Storage</b>	<input type="checkbox"/> <b>Solar Photovoltaics</b>
	<input type="checkbox"/> <b>Medical Technology</b> (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine)	

Kenneth G. Preston, J.D.

Director of Technology Transfer

Typed Name of Authorizing Agent  
  
 Signature

Title of Authorizing Agent  
 4/17/2013  
 Date

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Date Received	Proposal ID#
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## Technology Validation and Start-Up Fund Program

2013 Request for Proposals

### Phase 1 Application Information Page

<b>This Application:</b>		<input type="checkbox"/> Does	<input checked="" type="checkbox"/> Does Not	include information considered a "trade secret" under Ohio Revised Code Section 1333.61(D)
<b>Lead Applicant Institution</b>	The Ohio State University			
<b>Technology Transfer Office Contact</b>	<b>Name:</b> Christopher Hirsch			
	<b>Title:</b> New Ventures Strategist			
	<b>Phone Number:</b> 614-292-5602			
	<b>Email:</b> hirsch.48@busfin.osu.edu			
<b>Project Title:</b>	VisionLight			
<b>Patent Number, Patent Application Number, or Copyright Registration Number</b>			N/A	
<b>Total Project Budget</b>	\$50,000	<b>Ohio Third Frontier Funds Requested</b>	\$25,000	
<b>Project Focus:</b>	<input type="checkbox"/> Advanced Materials (related to advanced polymers; ceramics; composites; carbon fibers and nanotubes; and, specialty metals and alloys) <input checked="" type="checkbox"/> Software Applications for Business and Healthcare <input type="checkbox"/> Aeropropulsion and Power Management <input checked="" type="checkbox"/> Sensing and Automation Technologies <input type="checkbox"/> Fuel Cells and Energy Storage <input type="checkbox"/> Situational Awareness and Surveillance Systems <input type="checkbox"/> Medical Technology (related to imaging; surgical instruments/equipment; implant devices; and, regenerative medicine) <input type="checkbox"/> Solar Photovoltaics			

Ray Atilano

Executive Director

Typed Name of Authorizing Agent

Title of Authorizing Agent

*Ray Atilano*  
Signature

4/17/13  
Date

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