Trex SBIR Awards

Award Title
CNS for Long Range Unmanned Surface Vessels
Rotor High Speed Imaging System (RHIS)
Millimeter Wave Imaging Radar (MIR) for Identification of Human in Degraded Visual Environments
CNS for Long Range Unmanned Surface Vessels
RF Safety Alarm and Frequency Exposure Recorder (RF-SAFER)
DE Optical Turbulence Collection Sensor
Laser Alert System (LAS)
Personal display that eliminates visual eavesdropping
DE Optical Turbulence Collection Sensor
Scalable Coherent Photonic Array on a Silicon Platform
Augmented Reality Technologies for Training: A Video-See-Through, Helmet Mounted Display
Digital Adaptive Optics for Advanced Tactical Facial Recognition at a Distance
Next Generation Tactical Wearable Night Vision
Laser Source with Variable Pulse Width Capability
Aperture Synthesis for Partially Coherent and Passive Illumination
Trade Study of Beryllium-Replacement Materials for a Telescope
Diffusion Bonded CVC SiC for Large UVOIR Telescope Mirrors and Structures
Mobile Tactical Computer Human Machine Interface (HMI) Enhancements
Next Generation Tactical Wearable Night Vision
Electro-Optic and Infrared Situational Awareness Display
Aperture Synthesis for Partially Coherent and Passive Illumination
Stabilized Mount for OP-GPS
Advanced Celestial Azimuth Sensing Technology
Ground radiometer to characterize V and W band satellite link propagation loss
High Bandwidth Terahertz Communication Link
V/W-band transceiver design for UAV to satellite communication
Low Maintenance Low Cost Magnetically Actuated Valves
Biomimicry Based Azimuth Sensing
Affordable, Ultra-stable CVC SiC UVOIR Telescope for BENI Mission
Heads-Up Display for Control of Unmanned Ground Vehicles
Increased 3D Virtual Image Opaqueness and Contrast Resolution in Optical See-Through Head Mounted Displays
Heads-Up Display for Control of Unmanned Ground Vehicles
Biomimicry Based Azimuth Sensing
Head Worn Display (HWD) Augmented Reality for Military Training Applications
High Bandwidth Terahertz Communication Link
Novel North Orienting Device
Person-Portable Micro-Hydropower System
Advanced Celestial Azimuth Sensing Technology
Increased 3D Virtual Image Opaqueness and Contrast Resolution in Optical See-Through Head Mounted Displays
Magnetic Gears for Utility Actuation Gearbox Applications
Dimensionally Stable and Survivable Silicon Carbide Telescope
Silicon Carbide Corrugated Mirrors for Space Telescopes
Single Mode/Multi Mode and High Power Fiber-Optic Rotary Connection Technology
Dynamic Foveal Vision Display
A Wave-powered Emergency Position Indicating Radio Beacon (EPIRB) for Submarine Deployment
Minimally Machined HoneySiC Mirrors for Low Areal Cost and Density
Low Maintenance Low Cost Magnetically Actuated Valves
Advanced Multi-Purpose NIR/MWIR Dual-Band Coatings and Mirrors for HEL Beam Control Systems
Magnetic Gears for Utility Actuation Gearbox Applications
A Deterministic Approach to the Demonstration of Dimensionally Stable and Survivable VIS/IR CVC-SiC Mirrors for the Sp
Dimensionally Stable and Survivable Silicon Carbide Telescope for Next Generation STSS System
A Wave-powered Emergency Position Indicating Radio Beacon (EPIRB) for Submarine Deployment

Minimally Machined HoneySiC Mirrors for Low Areal Cost and Density
Absolute Attitude and Heading Reference Measurement System
Ocean Energy Extraction for Sensor Applications
A Deterministic Approach to the Demonstration of Dimensionally Stable and Survivable VIS/IR CVC-SiC Mirrors for the Sp
Absolute Attitude and Heading Reference Measurement System
Hi-Def Low Light Detector
Dynamic Foveal Vision Display
A Deterministic Approach to the Demonstration of Dimensionally Stable and Survivable VIS/IR CVC-SiC Mirrors for the Sp
Single Mode/Multi Mode and High Power Fiber-Optic Rotary Connection Technology
Solid State Night Vision Sensor
Chemical Vapor Composite (CVC™) SiC for HAN Propulsion Systems
Ocean Energy Extraction for Sensor Applications
High Mach, High Altitude Navigational Sensor
Hi-Def Low Light Detector
Chemical Vapor Composites Silicon Carbide for Radiation Hard Optics
Wideband Transmitter for Electronic Attack Aircraft
Volume, Near Net Shape Manufacturing of Chemical Vapor Composite Divert & Attitude Control Systems (DACS) Nozzles
L-Band Solid-State High Power Amplifier for Airborne Platforms
Turbulence Inner Scale Sensor
CVC SiC to Replace Beryllium Mirrors
CVC Silicon Carbide Optical Mounting Structure for Space Applications
Chemical Vapor Composites Silicon Carbide for Radiation Hard Optics
High-Efficiency Extremely High-Frequency (EHF) Power Amplifiers
Wideband Transmitter for Electronic Attack Aircraft
Integrated IR and Millimeter-Wave Sensor System
CVC SiC: The Low Cost Pathway to High Performance, Lightweight Mirrors
Optical Methods for Turbulence Profile Determination
High Volume, Low-Cost Production Process for High-grade Silicon Carbide Optics
Chemical Vapor Composite Materials for Thermal Protection Systems in Aggressive Reentry Space Vehicles
Analysis of Novel, Low Stress Chemical Vapor Composite Silicon Carbide for Optical Applications
High Speed Target Acquisition and Tracking System
Optimized Surface Quality of Chemical Vapor Composite Silicon Carbide Mirrors
Large Aperture CVC SiC Mirrors for High Energy Laser Applications
CVC SiC Mirrors Designed for High Energy Laser Applications
Beam Control for Extended Range
CVC SiC: The Low Cost Pathway to High Performance, Lightweight Mirrors
High Volume, Low-Cost Production Process for High-grade Silicon Carbide Optics
Rapid Target Designator for Simultaneous Laser Designation of Multiple Targets
Daytime Electronic Stellar Imaging
Chemical Vapor Composite Materials for Thermal Protection Systems in Aggressive Reentry Space Vehicles
CVC SiC to Replace Beryllium Mirrors
PAMELA: Propagation Analysis and Modeling Experiments for Laser Applications
Chemical Vapor Composite (CVC) Materials for Divert and Attitude Control Systems (DACS)
Beam Control for Extended Range
Tracking Through Laser-Induced Clutter for Air to Ground Directed Energy Systems
Multi-Channel Electronic Scanning Module for an Ultrahigh Frequency (UHF) Circular Array
Multi-Channel Electronic Scanning Module for an Ultrahigh Frequency (UHF) Circular Array
Multi-Channel Electronic Scanning Module for an Ultrahigh Frequency (UHF) Circular Array
Daytime Electronic Stellar Imaging
Tracking Through Laser-Induced Clutter for Air to Ground Directed Energy Systems
Wavefront Sensing for High Scintillation Environments

Trex SBIR Awards

Company Name	Agency	Branch	Program	Phase
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	DHA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	DARPA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	SOCOM	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	DARPA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	NASA		SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	SOCOM	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	DARPA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	NASA		SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	NASA		SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	NASA		SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I

TREX ENTERPRISES CORPORATION	NASA		SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	STTR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	STTR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	NASA		STTR	Phase II
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	NASA		STTR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	ARMY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	MDA	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase II
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	NAVY	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I
TREX ENTERPRISES CORPORATION	DOD	USAF	SBIR	Phase I

Trex SBIR Awards

Agency Tracking Number	Contract	Proposal Award Date	Contract End Date
N222-089-0027	M67854-24-C-6523	18-Jul-24	17-Jul-26
F242-0007-0342	FA9101-24-P-B102	16-Sep-24	23-Jun-25
A232-011-0485	W911SR-24-C-0008	27-Aug-24	28-Jun-25
N222-089-0027	M67854-22-C-6621	26-Sep-22	4-Dec-23
H211-005-0329	W81XWH21P0096	21-Jul-21	20-Feb-22
F181-017-0149	FA8650-21-C-6284	30-Apr-21	30-Jul-23
D20I-05-0102	W912CG-20-P-0019	25-Sep-20	27-Sep-21
F183-010-0826	FA8650-19-P-6044	23-Apr-19	24-Apr-19
F181-017-0149	FA9451-18-P-0279	20-Jul-18	20-Jul-19
F171-116-0637	FA8650-17-P-1085	31-Jul-17	2-May-18
N162-123-0768	N00014-17-P-1005	7-Dec-16	6-Oct-17
S163-003-0237	H92222-17-P-0042	9-Mar-17	11-Sep-17
D2-1472	W31P4Q-16-C-0024	24-Feb-16	23-May-18
A161-009-0687	W31P4Q-16-C-0113	13-Jul-16	12-Oct-16
F141-198-2060	FA8650-15-C-1874	29-Jun-15	24-Aug-18
B2-2065	HQ0147-15-C-7242	14-May-15	13-May-17
154703	NNX15CM41P	17-Jun-15	17-Dec-15
S151-002-0011	H92222-15-P-0035	30-Jul-15	29-Jan-16
D143-006-0019	W31P4Q-15-C-0052	23-Feb-15	22-Nov-15
N132-110-1213	N00024-14-P-4022	26-Nov-13	26-May-14
F141-198-2060	FA8650-14-M-1792	2-May-14	2-Feb-15
F141-253-0612	FA9453-14-M-0121	9-May-14	16-Feb-15
N111-004-0144	M67854-14-C-6516	16-Dec-13	15-Jun-16
F131-045-1461	FA8750-13-C-0211	18-Jul-13	17-Apr-14
A2-5196	W31P4Q-13-C-0074	12-Mar-13	31-Mar-15
F131-061-1474	FA9453-13-M-0132	19-Sep-13	20-Jun-14
N102-160-1025	N00024-13-C-4522	19-Mar-13	19-Mar-14
A2-5307	W911QX-13-C-0065	30-May-13	30-Sep-17
124229	NNX13CM04C	23-May-13	23-Nov-13
A2-5223	W56HZV-13-C-0066	15-Jan-13	15-Jan-15
A2-5009	W911QX-12-C-0009	14-Dec-15	14-Dec-17
A112-115-0529	W56HZV-12-C-0033	21-Nov-11	21-Nov-12
A121-029-0136	W911QX-12-C-0056	19-Apr-12	31-Oct-12
N121-085-0174	N00014-12-M-0204	7-May-12	
A112-079-0524	W31P4Q-12-C-0006	10-Nov-11	
A112-085-0526	W15QKN-12-C-0006	17-Oct-11	
N112-147-0800	N00014-11-M-0486	11-Oct-11	
N111-004-0144	M67854-12-C-6501	27-Oct-11	
A112-114-0527	W91CRB-12-C-0004	28-Oct-11	30-Apr-12
N102-115-1023	N68335-12-C-0092	14-Nov-11	
B2-1798	HQ0147-12-C-7748	12-Dec-11	30-Jan-14
104731	NNX11CH29P	18-Feb-11	29-Sep-11
N083-206-0205	N68335-11-C-0204	31-Jan-11	20-Sep-13
N091-003-1344	M67854-11-C-6535	27-Jul-11	26-Jan-14
N101-049-1044	N00024-11-C-4015	12-Sep-11	
94659	NNX11CB94C	1-Jun-11	30-Dec-14
N102-160-1025	N00167-11-P-0079	1-Dec-10	
B093-039-0274	HQ0006-10-C-7375	3-May-10	2-Nov-10
N102-115-1023	N68335-10-C-0535	20-Sep-10	20-Mar-11
B083-017-0176	HQ0006-10-C-7281		
B093-024-0295	W9113M-10-P-0043	30-Apr-10	29-Oct-10
N101-049-1044	N65538-10-C-0019	13-Jul-10	13-Jan-11

	94659	NNX10CF19P	29-Jan-10	29-Jul-10
A083-200-0469		W91CRB-10-C-0020	7-Dec-09	28-Feb-13
N08A-021-0151		N00014-09-C-0654	19-Aug-09	30-Jun-11
B2-1672		HQ0006-10-C-7281	20-Sep-10	19-Sep-12
A083-200-0469		W91CRB-09-C-0046	20-Jan-09	19-Jul-09
F073-043-0952		FA8650-09-C-5402	25-Nov-08	25-Feb-11
N091-003-1344		M67854-09-C-6540	19-Aug-09	15-Jul-10
B083-017-0176		HQ0006-09-C-7121	27-Mar-09	27-Sep-09
N083-206-0205		N68335-09-C-0095	11-Dec-08	21-Jan-10
F081-007-1273		FA8650-08-M-6885	17-Apr-08	17-Feb-09
B073-009-0451		W9113M-08-C-0044	15-Feb-08	14-Aug-08
N08A-021-0151		N00014-08-M-0275	30-Jun-08	29-Apr-09
N081-073-1298		N00014-08-M-0183	12-May-08	11-Mar-09
F073-043-0952		FA8650-08-M-5404	7-Jan-08	7-Jan-09
053-1037		W9113M-07-C-0156	21-Jun-07	20-Jun-09
N061-001-0968		N68936-08-C-0006	20-Dec-07	21-Jun-10
B063-027-0380		W9113M-07-C-0102	1-Mar-07	28-Aug-07
N062-125-0792		N68335-07-C-0081	9-Nov-06	9-May-07
F061-009-2650		FA9451-06-M-0135	7-Apr-06	7-Apr-07
B041-059-1731		W9113M-06-C-0144	17-May-06	18-May-08
053-0762		W9113M-06-C-0049	13-Mar-06	13-Sep-06
053-1037		W9113M-06-C-0050	26-Apr-06	27-Oct-06
F061-206-3301		FA8718-06-C-0060	25-May-06	30-Jun-07
N061-001-0968		N68936-06-C-0051	13-Jun-06	13-Dec-06
A062-003-2003		W911W6-07-C-0001	13-Nov-06	13-May-07
B041-086-0093		W9113M-05-C-0141	20-Jun-05	19-Jun-07
044-0721		FA9451-05-M-0064	14-Feb-05	14-Nov-05
	30191	NNG05CB14C	20-Sep-05	19-Sep-07
F041-031-0237		FA9453-05-C-0044	2-Jun-05	30-Aug-07
044-0472		HQ0006-05-C-7125	24-Jan-05	24-Jun-05
F051-293-0350		FA9200-05-C-0182	15-Jun-05	15-Jun-06
F051-140-0065		FA8650-05-M-5223	25-Mar-05	25-Mar-06
F041-008-0570		FA9451-05-C-0019	24-Mar-05	10-Jun-07
F041-008-0570		FA9451-04-M-0085	7-May-04	6-Apr-05
031-1060		FA9451-04-C-0321	26-Aug-04	30-Nov-06
B041-086-0093		FA9453-04-M-0282	14-May-04	18-May-05
	30191	NNG04CA96C	16-Jan-04	17-Jan-05
N041-106-0933		N00014-04-M-0204	17-May-04	17-Nov-04
N02-104-16		N00039-04-C-2120	8-Apr-04	31-Mar-10
F041-031-0237		FA9453-04-M-0125	16-Apr-04	15-Apr-05
B041-059-1731		FA8650-04-M-5221	5-May-04	5-Nov-04
A032-3730		W15P7T-04-C-J602	16-Jan-04	10-Aug-04
B041-041-0130		HQ0006-04-C-7045	21-Jun-04	21-Dec-04
031-1060		F2960103M0251		
021NM-2152		F29601-03-C-0043		
N012-0404		N68335-02-C-0420		
N012-0404		N68335-02-C-0420		
N01-166-02		N68335-02-C-3019		
N02-104-16		N00039-02-C-2205		
021NM-2152		F29601-02-C-0038		
011NM-1647		F29601-01-C-0097		

Trex SBIR Awards

Award Amount	Award Year	Topic Code	Solicitation Number	Solicitation Year
981143	2024	N222-089	22.2	2022
179514.77	2024	AF242-0007	24.2	2024
111307.2	2024	A23-011	23.2	2023
239702	2022	N222-089	22.2	2022
248607	2021	DHA211-005	21.1	2021
742325	2021	AF181-017	18.1	2018
224142.96	2020	HR001120S0019-05	HR001120S0019.I	2020
149876	2019	AF183-010	18.3	2018
149827	2018	AF181-017	2018.1	2018
149907	2017	AF171-116	2017.1	2017
79919	2017	N162-123	2016.2	2016
149843	2017	SOCOM163-003	2016.3	2016
1508846	2016	Non-DoD	2014.3	2015
98872	2016	A16-009	2016.1	2016
997205	2015	AF141-198	2014.1	2015
999381	2015	MDA13-006	2013.2	2013
124823	2015	S2.03		2015
147627	2015	SOCOM15-002	2015.1	2015
149169	2015	SB143-006	2014.3	2014
79940	2014	N132-110	2013.2	2013
149970	2014	AF141-198	2014.1	2014
149931	2014	AF141-253	2014.1	2014
998439	2014	N111-004	2011.1	2013
149957	2013	AF131-045	2013.1	2013
968579	2013	A11-079	2011.2	2011
148626	2013	AF131-061	2013.1	2013
349896	2013	N102-160	2010.2	2010
1479185	2013	A12-029	2012.1	2013
199303	2013	E3.02		2012
971675	2013	A11-115	2011.2	2011
1397221	2012	A11-114	2011.2	2011
149331	2012	A11-115	2011.2	2011
148458	2012	A12-029	2012.1	2012
78873	2012	N121-085	2012.1	2012
149501	2012	A11-079	2011.2	2011
99633	2012	A11-085	2011.2	2011
79991	2012	N112-147	2011.2	2011
149904	2012	N111-004	2011.1	2011
147577	2012	A11-114	2011.2	2011
727716	2012	N102-115	2010.2	2010
1965876	2011	MDA09-024	2009.3	2009
99990	2011	S2.04		2010
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99798	2005 MDA04-112		2004.4	2004
98564	2005 AF05-293		2005.1	2005
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733116	2005 AF04-008		2004.1	2004
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742980	2004 MDA03-027		2003.2	2003
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99990	2004 T4.01			2003
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723504	2003			
749858	2002			
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99741	2002			
97917	2002			
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Address 1	Address 2	City	State	ZIP	Country	Number Employees
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Company URL	UEI	DUNs	Hubzone Owned	Women Owned
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Socially Economically Disadvantaged	PI Name
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N	Mikhail Belenkii
N	Mikhail Belenkii
N	Dr. Mikhail Belenkii
N	Aaron Birkbeck
N	Mikhail Belenkii
N	Kyle Watson
N	Mikhail Belenkii
N	Joseph Zarrabi
N	Kyle Watson
N	Lauren Bolton
N	Lauren Bolton
N	Mikhail Belenkii
N	Mikhail Belenkii
N	Mikhail Belenkii
N	Dave G Sandler
N	Mikhail Belenkii
N	Mikhail Belenkii
N	Vladimir Kolinko
N	Richard Chedester
N	Vladimir Kolinko
N	Edward Davis
N	Mikhail Belenkii
N	Bill Goodman
N	Richard Chedester
N	Mikhail Belenkii
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N	Mikhail Belenkii
N	Richard Chedester
N	Mikhail Belenkii
N	Dee Symonds
N	Mikhail Belenkii
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N	Edward Davis
N	Bill Goodman
N	Clifford T Tanaka
N	Edward Davis
N	Mikhail Belenkii
N	Dee Symonds
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N	Edward Davis
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N	Edward Davis
N	Bill Goodman
N	Bill Goodman
N	Deanelle Symonds

N	Bill Goodman
N	Mikhail Belenkii
N	Edward Davis
N	Bill Goodman
N	Mikhail Belenkii
N	Paul Johnson
N	Mikhail Belenkii
N	Bill Goodman
N	Edward P Davis
N	Peter Martin
N	Clifford T Tanaka
N	Edward Davis
N	Mikhail Belenkii
N	Paul Johnson
N	Riki Maeda
N	Ky-Hien Do
N	Clifford T Tanaka
N	Ky-Hien Do
N	Mikhail Belen'kii
N	Kyle Webb
N	Clifford Tanaka
N	Colby A Foss, Jr.
N	James Schellenberg
N	Ky-Hien Do
N	Kevin Miyashiro
N	William F Fischer, III
N	Mikhail Belenkii
N	William Fischer
N	Colby A Foss, Jr.
N	Clifford T Tanaka
N	Victor Hasson
N	William F Fischer, III
N	William F Fischer, III
N	William F Fischer, III
N	Mikhail Belenkii
N	William F Fischer, III
N	William F Fischer
N	Paul Fairchild
N	Mikhail Belenkii
N	Colby A Foss, Jr.
N	William F Fischer, III
N	Mikhail Belenkii
N	Colby A Foss, Jr.
N	Mikhail Belenkii
N	Mikhail Belenkii
N	Clifford T Tanaka
N	Clifford T Tanaka
N	Clifford T Tanaka
N	Mikhail Belen'kii
N	Mikhail Belen'kii
N	Mikhail Belen'kii

PI Title,	PI Phone	PI Email
	8586465479	mbelenkii@Trexenterprises.com
	8586465479	mbelenkii@Trexenterprises.com
	8586465479	mbelenkii@Trexenterprises.com
	(858) 646-5479	mbelenkii@Trexenterprises.com
	(858) 646-5479	mbelenkii@Trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
	(858) 646-5479	mbelenkii@Trexenterprises.com
Group Director for Remote Sensing and Navigation	(858) 646-5479	mbelenkii@trexenterprises.com
	(858) 646-5479	mbelenkii@trexenterprises.com
Electro-Optical System Engineer	(858) 646-5785	kwatson@trexenterprises.com
	(858) 646-5479	mbelenkii@trexenterprises.com
EO Sensors Group Director	(858) 646-5535	kwatson@trexenterprises.com
	(858) 646-5479	mbelenkii@trexenterprises.com
	(858) 646-5579	jzarrabi@trexenterprises.com
	(858) 646-5355	kwatson@trexenterprises.com
Program Manager	(808) 245-6465	lbolton@trexenterprises.com
Chief Scientist	(808) 245-6465	lbolton@trexenterprises.com
Director of RSN	(858) 646-5479	mbelenkii@trexenterprises.com
Group Manager for Remote Sensing	(858) 646-5479	mbelenkii@trexenterprises.com
Group Mgr, Remote Sensing	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(858) 646-5528	dsandler@trexenterprises.com
Chief Scientist, Optical Imaging	(858) 646-5479	mbelenkii@trexenterprises.com
Group Mgr, Remote Sensing	(858) 646-5479	mbelenkii@trexenterprises.com
Senior Scientist	(858) 646-5708	vkolinko@trexenterprises.com
Program Manager	(413) 247-9440	rchedester@trexenterprises.com
Senior Scientist	(858) 646-5708	vkolinko@trexenterprises.com
Program Manager	(808) 442-7030	ndavis@trexenterprises.com
Group/Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Principal Investigator	(858) 437-3899	bgoodman@trexenterprises.com
Program Manager	(413) 247-9440	rchedester@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(413) 247-9440	rchedester@trexenterprises.com
Group/Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(808) 646-9145	dsymonds@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(808) 463-7407	edavis@trexenterprises.com
Director of Optical Progr	(858) 437-3899	bgoodman@trexenterprises.com
Principal Investigator	(808) 245-6465	ctanaka@trexhawaii.com
Program Manager	(808) 442-7030	edavis@trexenterprises.com
Program Manager	(858) 646-5479	mbelenkii@trexenterprises.com
Program Manager	(808) 646-9145	dsymonds@trexenterprises.com
Principal Investigator	(858) 437-3899	bgoodman@trexenterprises.com
Program Manager	(808) 442-7030	edavis@trexenterprises.com
Director, Optical Programs	(858) 437-3899	bgoodman@trexenterprises.com
Group Leader	(808) 442-7030	edavis@trexenterprises.com
Director, Optical Program	(858) 437-3899	bgoodman@trexenterprises.com
Director, Optical Programs	(858) 437-3899	bgoodman@trexenterprises.com
Staff Scientist	(808) 442-7032	dsymonds@trexenterprises.com

Principal Investigator	(858) 437-3899	bgoodman@trexenterprises.com
Group Manager, Remote Sen	(858) 646-5479	mbelenkii@trexenterprises.com
Group Leader	(808) 442-7030	edavis@trexenterprises.com
Director, Optical Program	(858) 437-3899	bgoodman@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Chief Engineer	(858) 646-5427	pjohnson@trexenterprises.com
Chief Scientist, Optical	(858) 646-5479	mbelenkii@trexenterprises.com
Sr. Supervisory Scientist	(858) 437-3899	bgoodman@trexenterprises.com
Senior Supervisory Engineer	(808) 442-7030	edavis@trexenterprises.com
Chief Scientist	(808) 442-7013	pmartin@trexenterprises.com
Senior Supervisory Scientist	(808) 245-6465	ctanaka@trexenterprises.com
Sr. Supervisory Scientist	(808) 442-7030	edavis@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Chief Engineer	(858) 646-5427	pjohnson@trexenterprises.com
Senior Staff Scientist	(808) 442-7032	rmaeda@trexenterprises.com
Senior RF/MMW Engineer	(808) 442-7026	kdo@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	ctanaka@trexenterprises.com
RF/MMW Engineer	(808) 442-7026	kdo@trexenterprises.com
Senior Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Principle Opto-Mechanical	(858) 646-5598	kwebb@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	ctanaka@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	cfoss@trexenterprises.com
Senior RF/MMW Engineer	(808) 442-7028	jschellenberg@trexenterprises.com
Senior RF/MMW Engineer	(808) 442-7026	kdo@trexenterprises.com
RF/MMW Manager	(808) 442-7042	kmiyashiro@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	bfischer@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Principal Investigator	(808) 245-6465	bfischer@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	cfoss@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	ctanaka@trexenterprises.com
Program Manager	(858) 646-5474	vhasson@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	bfischer@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	bfischer@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	bfischer@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	bfischer@trexenterprises.com
Principal Investigator	() -	bfischer@trexhawaii.com
Program Manager	(858) 646-5445	pfairchild@trexenterprises.com
Sr. Supervisor Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	cfoss@trexenterprises.com
Sr. Staff Scientist	(808) 245-6465	bfischer@trexenterprises.com
Senior Supervisory Scient	(858) 646-5479	mbelenkii@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	cfoss@trexenterprises.com
Sr. Supervisor Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Senior Supervisory Scient	(858) 646-5479	mbelenkii@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	ctanaka@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	ctanaka@trexenterprises.com
Senior Staff Scientist	(808) 245-6465	ctanaka@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com
Sr. Supervisory Scientist	(858) 646-5479	mbelenkii@trexenterprises.com

Research Area Keywords
Autonomy, celestial navigation, Inertial navigation, Long Range Unmanned Surface Vehicle, LRUSV, Satellite Tracking
change detection, rotor hub, strobe light illuminator, High speed photography
Artificial Intelligence, Automotive Radar, Machine Learning, Millimeter Wave Imaging, Degraded Visual Environments
Autonomy, celestial navigation, Inertial navigation, Long Range Unmanned Surface Vehicle, LRUSV, Satellite tracking
detector, directed energy weapon, Radio Frequency Injury
Adaptive optics, atmospheric characterization, atmospheric propagation, decision aid, optical turbulence, phase-front disto
laser detection, laser source direction finding, Laser warning devices, laser wavelength estimation
Biometric Identification, Data Security, sensitive information access, virtual retinal display
Adaptive optics, atmospheric characterization, atmospheric propagation, decision aid., optical turbulence, phase-front dist
coherent optical transmitter array, frequency comb generation, high extinction ratio wavelength filter, low complexity, minir
Augmented Reality (AR), games, Heads-up-display (HUD), Helmet-mounted-display (HMD), Trainig, Virtul Reality(VR)
Atmospheric mitigation, Digital Adaptive Optics, facial recognition, imaging, ISR, Long Range Imaging, Passive Imaging, S
All Conditions Viewing, AUGMENTED REALITY, head-worn display, Multi-Spectral Fusion, night vision goggle
Coherent Control of laser diode, Diode-pumped Solid-state amplifier, Laser Designator, Mach-Zehnder Intensity modulato
Active, aperture synthesis, Conformal, fringe, imaging, Passive, Turbulence
Beryllium Replacement, CVC SiC, CVC SiC?, CVC Silicon Carbide, CVC Silicon Carbide?, Silicon Carbide, Warm Stop
Ceramics, Infrared, Mirrors, Structures, Telescope Arrays, Ultraviolet, visible
abstract user-interface, adapter pat, API migration, Assistive Technologies, AUGMENTED REALITY, composite applicatio
All Conditions Viewing, AUGMENTED REALITY, head-worn display, Multi-Spectral Fusion, night vision goggle
Electro-Optic Sensor Display, Head-Mounted Display, NVG Imagery, Omnidirectional Imagery, Situational awareness
Airborne imaging, Electro-optic, ISR, long standoff range, partially coherent, passive illumination, Synthetic Aperture, tacti
Geolocation, GPS satellites, GPS-denied navigation, Jamming, Navigation, satellites., Spoofing
Azimuth Sensing, celestial compass, Common laser range finder integrated capability, sky polarization compass
atmospheric modeling, Monte Carlo modeling, radiometer, SATELLITE COMMUNICATION, V/W-band communication
custom configurations, frequency variable transmissions, Gigabit data rates, portability, THz communication
TBD
Leakage, Magnetic, Pack-less, Reduced Maintenance, seawater, Stem-less, valve, valve stem
all-weather celestial compass, Compact sky polarization compass, polarizer-on-pixel, weapon azimuth sensing
Ceramics; Structures; Mirrors; Telescope Arrays; Ultraviolet; Visible; Infrared
custom configurations, frequency variable transmissions, Gigabit data rates, portability, THz communication
contrast of augmented reality objects, Head-Mounted Display, Military training, mixed-augmented reality, opaqueness of a
EYE TRACKING, head mounted display, heads-up display, optical see-through, Robotics, unattended ground sensors
Azimuth Sensing, biomimicry, celestial navigation, polarization compass, Sensors
AUGMENTED REALITY, HWD, Simulation, Training, Virtual reality
10 Gbps, beam shaping, communication link, Covert, Data Link, Frequency Agile, Sub-THz
Bearing, direction, Gyroscope, Heading, Magnetic compass, MEMS, orientation, True North
energy harvester, humanitarian assistance and disaster relief, Hydrodynamic flow energy, Micro hydropower, off-grid powe
Celestial azimuth sensing, Far Target Location, Forward Observer, North finding system
3D vertical imagery, AUGMENTED REALITY, dismounted soldier training, image resolution and fidelity, mixed reality, Opt
Gearbox, Low maintenance, Magnetic Gear, Mine Sweeping, Rescue Hoists, utility actuation, winch
Athermal Telescope, Beryllium Replacement, Lightweight Mirrors, Nuclear Survivability, Sensor Telescopes, Silicon Carbi
Processing Methods; Ceramics; Mirrors
Fiber Optic Instrumentation, Fiber Optic Rotary Joint, fiber optics, Phase shifter, Phased array antennas, Photonic Control
eye-tracker, Head-Mounted Display, MEMS scanner, Pico display engine, retinal scanning display
Emergency beacon, EPIRB, GPS positioning, rechargeable, Self-powered, submarine, watercraft, Wave energy
Kinematic-Deployable; Large Antennas and Telescopes; Optical; High-Energy; Ceramics; Composites; Optical & Photonic
cooling water, Fire Main, Leakage, Reduced Cost, Reduced Maintenance, seawater, valve, valve stem

Kinematic-Deployable; Large Antennas and Telescopes; Optical; High-Energy; Ceramics; Composites; Optical & Photonic

ENERGY CONVERSION, OCEAN, PULL-CORD GENERATOR, Renewable Energy, Sensors, UUVS
Beryllium Replacement, Lightweight Mirrors, Non-toxic, Nuclear Survivability., Sensor Telescopes, Silicon Carbide, Space

Abstract

Long-Range Unmanned Surface Vessels (LRUSV) are designed to operate for several days at ranges up to 1,000 nautica
Rotorcraft tests at the National Full-Scale Aerodynamics Complex (NFAC) utilize hundreds of research data signals and re
Army mobility can be significantly affected in Degraded Visual Environments (DVE). In desert terrain, clouds of sand and d
Long-Range Unmanned Surface Vessels (LRUSVs) must maintain accurate knowledge of position when GPS is degraded
Trex Enterprises Corporation proposes a wearable passive device called “RF-Eye” which alerts the user to levels of RF irr
To support development of Directed Energy (DE) decision aids and to characterize optical turbulence along arbitrary slant
Lasers present a threat to military forces. They can damage the eyesight of dismounted soldiers, operators of ground vehi
Trex Enterprises Corporation proposes to design, develop, demonstrate, and prototype a Secure Personal Display (SPD)
To support development of Directed Energy (DE) decision aids and to characterize optical turbulence along arbitrary slant
Trex Enterprises in conjunction with Columbia University propose to develop and build a scalable coherent optical transmi
Commercial virtual reality, and video-relay augmented reality head worn displays do not meet the requirements needed to
Positively identifying a target at tactical ranges is a formidable task that is hindered by target occlusion, atmospheric turbul
Trexs Night Vision Head Worn Display system (NV-HWD) will provide digital, multi-spectral, robust all-condition viewing ca
Trex Enterprises proposing to design a Laser source at 1064 nm with Variable Pulse Width Capability with adjustable puls
ABSTRACT:Trex proposes in Phase 2 to provide a brassboard demonstration of a multi-aperture homodyne beam encodi
Design, model, prototype, and test a silicon carbide Warm Stop for a telescope to demonstrate the advantages of using sil
Trex proposes to demonstrate a novel ceramic joining technology (solid state bonding) for CVC SiC® that allows "se
On high-speed planing boats, off-road vehicles, helicopters, and other moving DoD platforms, unpredictable platform motio
Trex Enterprises Corporation proposes a night and all-conditions viewing head-worn display system (AC-HWD) as the bas
Human-computer interaction and the display of infrared imagery and electro-optic-sensor data require an improved interfa
Under Phase 1, Trex Enterprises Corporation of San Diego will develop electro-optic (EO) infrared (IR) sensors using aper
Trex Enterprises will develop a disruptive, fundamentally-new, military navigation architecture to provide game-changing a
The Common Laser Range Finder Integrated Capability (CLRF-IC) system requires a non-magnetic azimuth sensing mod
ABSTRACT: Trex Enterprises proposes a method for monitoring atmospheric loss of Earth-to-satellite signals in the V and
Trex Enterprises plans to design and build prototypes of a multi-Gigabit data rate THz radios. It will fabricate two prototype
ABSTRACT: TBD BENEFIT: TBD
Modern warships contain thousands of valves for purposes as diverse as freshwater distribution, wastewater, firefighting, c
Current technology for weapon azimuth measurements during training exercises is limited by excessive weight, size, cost,
Working with our System Integrator partner (ITT-Exelis) and Richard Lyon (NASA/GSFC Principal Investigator Compact A
Trex Enterprises plans to design and build prototypes of a multi-Gigabit data rate THz radios. It will fabricate two prototype
Mixed-augmented reality displayed via a head-mounted display (HMD) provides a new paradigm for military training. Sold
The US military uses unattended ground sensors (UGS) to provide situational awareness for remote battlefield application
Weapon azimuth measurements are used to determine the aiming accuracy between the shooter and intended target duri
The augmented reality head worn display (HWD) that can superimpose computer generated information on an individual&
Trex Enterprises proposes the design and fabrication of a sub-THz heterodyne communications link capable of one-way b
The US military uses unattended ground sensors (UGS) to provide situational awareness for remote battlefield application
Limited fuel availability and high fuel transport costs in off-grid regions prohibit the utility and practicality of petroleum-fuel
A celestial compass based on solar & stellar imaging has several principal advantages as compared to a digital magn
Mixed-Augmented Reality (M-AR) provides the Warfighter with a unique and realistic training experience that blends virtua
Modern rotary wing naval aircraft posses numerous winching and reeling systems to handle cargo, rescue operations, and
MDA, Raytheon and other DoD components are interested in Dimensionally Stable and Survivable Silicon Carbide Telesc
Trex Enterprises Corporation (Trex) proposes technology development to manufacture monolithic, lightweight silicon carbi
Fiber Optic Rotary Joints allow optical signals carried by fiber optic cables to traverse a rotating interface (for example betw
Conventional head mounted displays (HMD) have several limitations including limited field of view (FOV) and spatial resol
Emergency position indicating radio beacons (EPIRB) currently have very short operation lifetimes (=48hrs) due to the lim
A problem perceived for Trex Enterprises chemical vapor composite silicon carbide CVC SiC^{TM}m
Modern warships contain thousands of valves for purposes as diverse as freshwater distribution, wastewater, firefighting, c
MDA and other DoD components are interested in Advanced Multi-Purpose NIR/MWIR Dual-Band Coatings and Mirrors fo
Modern rotary wing naval aircraft posses numerous winching and reeling systems to handle cargo, rescue operations, and
MDA, Air Force, and Raytheon require dimensionally stable and survivable SiC substrates and coatings for the Space and
MDA, Raytheon and other DoD components are interested in Dimensionally Stable and Survivable Silicon Carbide Telesc
Emergency position indicating radio beacons currently have very short opeveration lifetimes (=48hrs) due to the limited on

One of the major problems perceived for Trex Enterprises chemical vapor composite silicon carbide mirrors is the cost of r
The OneTESS program is the U.S. Army next generation system for conducting live training exercises of simulated force-o
Remote ocean instrumentation often relies on floating buoys with sensors to acquire time series measurements such as a
MDA, Air Force, and Raytheon require dimensionally stable and survivable SiC substrates and coatings for the Space and
The Army’s One Tactical Engagement Simulation (OneTESS) program is adopting a sensor based approach to obtain wea
We have developed an innovative approach to high fill factor CMOS image sensors in which the photosensitivity is contain
Head Mounted Displays (HMDs) currently lag behind both sensors and information systems in their limited ability to provid
MDA, Air Force, and Raytheon are interested in dimensionally stable and survivable SiC substrates and coatings for the S
Fiber Optic Rotary Joints allow optical signals carried by fiber optic cables to traverse a rotating interface (for example betw
Trex Enterprises Corporation (Trex) proposes to develop a broadband (400nm ¡V 1600 nm) CMOS-based focal plane arra
Trex will develop rocket motor components suitable for liquid HAN monopropellant propulsion systems utilizing its patented
Remote ocean instrumentation often relies on floating buoys with sensors to acquire time series measurements such as a
Future weapon systems will operate for long durations at high altitudes and Mach number speeds. There exists a strong p
Trex’s Photodiode on Active Pixel (POAP) image sensor technology provides high light collection efficiency (QE x Fill Fact
Trex proposes to continue development of a radiation hard optical coating for CVC silicon carbide through refinement of th
Trex Enterprises is pleased to submit this Phase II proposal to construct the prototype of a wideband, high-power solid-sta
Divert & Attitude Control System nozzles will be fabricated using Trex’s chemical vapor composite (CVC) silicon carbide m
Trex Enterprises is pleased to submit this proposal to demonstrate the feasibility of a wideband, 1kW solid-state power am
Atmospheric turbulence degrades performance of imaging and laser propagation systems. To validate the theoretical pred
The Department of Defense has a stated goal to replace Beryllium (Be) in optical applications with a closely matched mate
Trex's chemical vapor composite (CVC) silicon carbide has great potential in space optical systems due to its high specific
A program to develop chemical vapor composite silicon carbide (CVC SiC) mirrors with reflective coatings capable of main
Trex Enterprises is pleased to submit this proposal to demonstrate the feasibility of a high-efficiency extremely high-freque
Trex Enterprises is pleased to submit this proposal to demonstrate the feasibility of an ultra-wideband, high-power transmi
This proposal is to demonstrate the feasibility of a hybrid terrain and obstacle sensor consisting of a near-infrared (NIR) LI
This program targets manufacturing improvements for the production of high performance SiC optical mirrors using Trex’s
Accurate estimates of the profile of atmospheric turbulence strength along the path is required to improve the performance
The following proposal summarizes the process by which Trex will utilize out patented CVC (Chemical Vapor Composite)
The continued study of the application of the Chemical Vapor Composites (CVC) process to thermal protection system (TP
The proposed program will seek to assess the viability of silicon carbide deposited via Trex's chemical vapor composite (C
This SBIR addresses the need to provide a two-man portable sensor suitable for the detection, acquisition and 3-D trackin
With the increasing need for high performance optical mirrors, Trex will look to further optimize the as-deposited surface p
This program targets paths that will improve the manufacturing process of high performance chemical vapor composite (C
This program targets paths that will improve the manufacturing process and further reduce Trex's fabrication costs and de
An interception of fast targets early in their flight at a long range is important for national missile defense. The Airborne Las
The emergence of numerous DoD programs that involve optical tracking, surveillance, and directed energy technologies h
The following proposal summarizes the process by which Trex Enterprises will utilize our patented CVC (Chemical Vapor
Small surface craft filled with high explosives and operated by terrorist groups represent a significant threat to docked and
The Phase II program will develop and test in the field the hardware prototype of the Automated Celestial Navigation Syste
A study of the application of the Chemical Vapor Composites (CVC) process to thermal protection system (TPS) fabricatio
CVC SiC is the best candidate material to replace beryllium; it has the highest thermal stability and is second only to beryll
Laser communication has enormous potential to provide a secure, jam-resistant, low detection probability and high-bandw
A study of the application of the CVC process to DACS thruster nozzle fabrication is proposed. CVC offers the benefits of
Intercepting of fast targets early in their flight at very long range by using laser weapon is important for national missile def
The agility and speed with which directed energy can be retargeted and delivered to the target makes a laser weapon high
"This project addresses the need for improved control electronicsto support the Navy's UHF Electronically Scanned Array
"This project addresses the need for improved control electronicsto support the Navy's UHF Electronically Scanned Array
The objective of this project is the development of a control module capable of providing the excitation for the Navy's UHF
"The Global Positioning System (GPS) is the best navigation system for worldwide, day-and-night position determination.
"Dramatic improvements in laser power and beam control technology combined with agility and speed with which directed
Strong scintillation in long horizontal path laser beam projection systems, such as ABL, corrupts the phase difference mea