

A Public-Private-Partnership: Department of Defense – Industry – Academia









Accelerator Program (LEAP 2022) Project Call

LIFT Ecosystem Accelerator Program 2022

Instructions

- Complete the attached forms to submit your project
- Include proposed budget (Maximum \$100,000 from LIFT) and timeline (6 months)
- Projects will be evaluated on:
 - Technological Merit
 - Technology MRL level
 - Program Timing
 - Funding Requirement
 - ⚠ LIFT Member Engagement
 - Planned use of LIFT's High-Bay Equipment.
 - Cost Share Commitment
- Submit completed forms to https://lift.technology/project-calls/

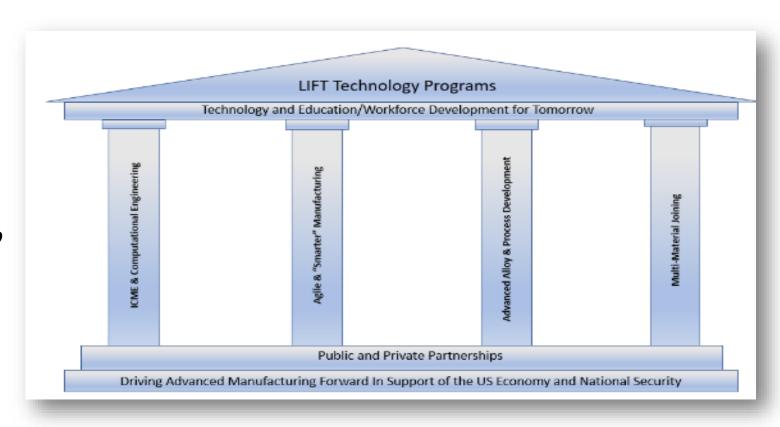
Click to register for LIFT's Q&A Sessions:

- April 13 at 1 p.m. ET
- April 21 at 11 a.m. ET



Project Summary

- ♠ Open to all LIFT members
 - Awardee must be a LIFT Silver member or higher tier
 - All project consortium members must be a LIFT member in good standing for award
 - Non-members and/or lower tier members may submit proposals but must join membership or upgrade to minimum Silver tier if awarded
- Subject(s) must be aligned with the four LIFT Technology Pillars
- ⚠ Subject(s) defined by five (5) topics





LIFT Technology Pillars

ICME & Computational Engineering

- ICME Education
- CAD/CAE/CAM Industry Projects

Agile and "Smarter" Manufacturing

- Wire Arc Additive Manufacturing (WAAM)
- Cold Spray Additive Manufacturing
- Direct Metal Laser Sintering Additive Manufacturing (DMLS)
- Incremental Sheet-forming (Robotic Blacksmithing)
- Quality & ND Inspection of Additive Parts
- ♠ Factory Automation Demonstration and Education
- Digital Thread & Digital Twin Demonstration and Education
- Orphan & Obsolete parts

Advanced Alloy & Process Development

- ⚠ Lightweight Armor Development
- Rare Earth Materials Process Optimization
- Hypersonic Materials Development
- Agile Tooling
- Supply base development to accelerate manufacturing readiness (MRL)

Multi-Material Joining

- Advanced Metallic Welding Process

 Development (GMAW, Friction-Stir, Linear Friction)
- Metallic/Non-Metallic Joining
- Quality & Inspection
- Advanced Joining Education



Project Timing

- Proposal Deadline: May 13, 2022
- Project Announcements: June 2022
- ♠ Subawards contracting: Starting June after announcements
- Projects must be completed by March 31, 2023
 - Max six (6) month project duration
 - ♠ Final report due April 30, 2023
- ♠ Debrief to non-awardees: June 2022
 - Including discussion regarding further developing project ideas into "white papers" for submission in future proposals



Project Funding

- Max \$100,000 LIFT contribution per project
 - Minimum industry cost-share 20% of Total Project Value
 - Cost-share (recommended at 1:1) is strongly considered in project selection
- Award will be cost reimbursable no fee
 - Not to Exceed amount of LIFT award
 - To be billed on a monthly basis as costs are incurred
- A Fully burdened cost proposal required at submission deadline



Decision Criteria

- ♠ Technological Merit
 - Aligned with project topics
 - Aligned with LIFT pillars
- - MRL 4-7 Only (below 4 and above 7 disqualified)
 - Moves the TRL/MRL by 1 or 2 points
- A Funding requirement
- ♠ Cost share commitment
 - ♠ Including services, materials etc.
- ⚠ LIFT member engagement
 - ⚠ Lift Silver member or higher
 - ⚠ LIFT Ecosystem involvement
- ♠ Use of LIFT High-Bay and Equipment
 - https://lift.technology/facilities/



Topics for LEAP 2022 Project Call

- ♠ Simulation and manufacturing of hybrid materials (MMCs, CMCs)
 - A Relevant to extreme environments (barrel liners, rotating bands, ballistics, armor, hypersonics, ...)
 - ⚠ Interest in the application of cold spray, welding, direct current sintering, ...
- ⚠ High-throughput characterization for rapid qualification of materials, processes, and/or parts.
 - A new and a critical interest area as well as our advancing programs and technical direction.
- ♠ Simulation and manufacturing of functionally graded materials
 - ⚠ Laminar and/or continuously-graded
 - ⚠ Interest in the application of additive manufacturing, direct current sintering, cold spray ...
- A Solid-state joining of significantly dissimilar materials (e.g. glass/sapphire to metal, MMCs to CMCs, ceramic to metal, ...)
 - ♠ Simulation to predict processing parameters and results
 - Manufacturing (e.g. LFW, FSSW, rotary friction, ...)
- Advanced diagnostics for process adjustments and predictive maintenance
 - ⚠ Opportunities for Augmented Reality, separating the operator and the process
 - Considerations of wireless connectivity, mobile devices, 5G





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Accelerator Program (LEAP 2022) Project Submission Form

LIFT Ecosystem Accelerator Program 2022

Current Technical State

Acquisition Phase	Technic Review	Threa	ad		TRL Reference		Thread	A. Technology and Industrial Base		B - Design		C - Cost & Funding			D - Materials (Staw Materials, Components, Sub-assemblies and Sub-systems)				E - Process Capability & Control			F - Quality Management			G - Mfg Workforce (Engineering & Production)	H - Fa	H - Facilities		I - Mlg Management	
Acquisition Phase	Revies	Sub- Threa	Technology and Metarity	TRL Definition	Description	Supporting Information	Sub- Thread	A.1 - Industrial base	A.2 - Manufacturing Technolog Development	9 B.1 - Producibility Program	B.2 - Design Metarity	C.1 - Production Cost Knowledge (Cost modeling)	C.2 - Cost Analysis	C.3 - Manufacturing Investment Budget	D.1 - Metarity	D.2 - Availability	D.3 - Supply Chain Management	D.4 - Special Handling (i.e., GFP, shelf life, security, HAZMAT, stanage environment, etc.)	E.1 - Modeling & Simulation (Product & Process)	E.2 - Manufacturing Process Materity	E.3 - Process Yields and Rates	F.1 - Quality Management including Supplier Quality.	F.2 - Product Quality	F.3 - Supplier Quality Management	G.1 - Mig Workforce (Engineering & Production)	H.1 - Tooling / Special Test and Impection Equipment (STE/SIE)	H2 - Facilities	I.1 - MSg Planning & Scheduling	1.2 - Materials Planning	
Pre-Materiel Solution Analysis (Pre-MSA)	-	TRL		TRL 1 Basic principles abserved and reported.	Lowest level of technology readiness. Scientific research hogins to be translated into applied research and development (ESL). Exemples might include paper studies of a technology's basic properties.	Published research that identifies the principles that underlike this secheology. References to who, where, when.	MRL 1 _		-		Manufacturing research opportunities identified.		báceály any manufacturing cost implications.	Pulavial investments identified.	Material properties identified for rescorts.	-	-	-	-			-	-	-		-	-	-		
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Pre-Materiel Solution Analysis (Pre-MSA)	-	YRL 2		TSL 2 Technology concept and/or application formulated.	invention begins. Once havic principles are observed, practical applications can be invented. Applications we specularive, and these may be no proof or detailed analysis to support the ownerful. Exemples are limited to enablytic studies.	Publications or other reference that outline the application being considered and that provide analysis to support the cence pt.	MRL 2 =		New manufacturing concepts and potential substance identified.	-	Applications defined. (Youd performance goals identified that may drive manufacturing updates.	Cost model approach defined.	Cost elements identified.	Programjyrojects have reascable budget estimates for reaching MEL 3 through experiment.	Manerial properties and characteristics predicted.	Material availability assessed.		teitial evaluation of potential negalatory requirements and special handling concerns.	lebial models developed, if applicable.	Scredification of manerial and/or process approaches.	·		-	-			-			
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Pre-Materiel Solution Analysis (Pre-MSA)	-	TRL:		TRL 3 Analytical and experimental critical function audior characteristic proof of concept.	Active RED is instance. This includes monthlyical studies and bloomtony studies to validate physically the analytical predictions of operations elements of the backward predictions of operations of the change, Lampins include the change, Lampins include to representative,	Awadin of laboratory sets performed to measure performed to measure basesuries of interest and composition to manifold predictions for critical predictions for critical predictions for critical predictions to critical predictions to who, where, and when these tests as comparisons were performed.	d MRL 3 -	Potential sources identified to address sockoology needs. Understand stars of the art.	Mandorusing technology concepts identified though suspection ethinodesis.	Solvener materials/processes white the manufacturability using asyedimental models.	Top level performance requirements defended. Trade-oths in design option assessed based on experiments, Product Decycle and technical requirements evaluated.	Initial cost taspets and risks decentified. High level process chart model developed. Technology cost models developed for save process steps and materials based on experiments.	Sensityly analysis conducted define cost diviner and production development states (i.e. lab to pilot to factory).	Programping-form have rescurable logical retinates for y leaching MRL 4 by MS A.	State in properties wild stand and messed for basic samulacture billy using experiments.	Material scale up issues identified.	initial management of potential wagely chain copebility.	Lat of heard-on materials identified. Special heading procedures applied in the tab. Special heading concerns seasoned.	the efficiency of proposed manufacturing concepts or producibility result based on high level process flow chart models.	Occurrent high level monothecturing processes. Children manufacturing processes beedfled through, experimentation,	juital enimates of yields and yates hand on experiments or altern of the art.				See manufacturing skills decolled.		Specialized facility requirements because the second indeed for th			
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Engineering & Mfg Development (ZMD)	Critical D Revie (CDR	w TRL:		THE. T System prototype demonstration in an operational environment.	Problems near or of pleased propertiented systems. Represents a major deep up lean ISE. Et ly respoke to propertient and actual system problems in an operational evolutionness (so, i in a street, in a vehicle, or in spaces). Exemples in shell training the problems in a least bad abroad.	Assentia from tending a principle yeques in an opportunitation of the tends? Now performed the tends of the t	MRL7 _	uniformal compatibility in sequent periodicion has been analyzed bedeshingle-five-sign messen analistis, and educatement instantial analistis, and educatement instantial are assessed/instantialistis. Developing potential office-sold houselinging potential office-sold matters as presence;	Manufacturing technology office resolvable. Republical producing the second producing the second producing demonstrated in a production representative organization.	Collated personalistic production of the second personal section with above deeper of the section of the personal section of the section of t	Product drags and histories are well- except defined to suspent skilled design- sarious, some through dusing charges saidle may be applicated dispression state. The day has applicated and sealing the said of the sealing of the sealing saidle saidle saidle been referenced. Princetal RC risk looses have been bleedfled and religiation plac to by place.	continued applicated with the results of popularies with epitemious produced in a production representation to environment, production practice production and characteristic and characteristic production practice and characteristic production practice and characteristic productions and characteristic productions and characteristic productions.	Manadama vary north rolled by a system hole by special roll and has feed appriest being roll for feed appriest begans for the property of the property or the property of the property supportined by core estimates. Cost reduction and architecture or an appliest being roll property are applied to property or the "Should Cost" models.	Popper for golden being reflexer for modeling ME, 13 yr ME, 20 meteoring ME, 7 is ME, 7 is meteoring ME, 7 is measurafestrated with approved militaries plans to place.	Marenia materia y adhicina ke jiha lise hali Baterial nya-dhicakan ayyeesah	Any list key research which result by recent LESP below. Lung level recent LESP below. Lung level recent level and level recent partial control of the level level of the level level of the level level level of the level level level place.	Chesino rappiy shahi manapameni processor defined, necessorial, and in plane. Han decessorial, production indicators, favorament of chickel first lier supply chain completed in d. cinestillis, capacity, etc.).	Appelab has life y excelorate cycled by production registering the control of the representative sendencies. Special hashing precedence developed and accounted on work tradescrimes for place from each tradescrimes for place from	Machinister Later a word to discrement registers constraints and literathy improvement appartmention.	Datafacia ing processes demonstrated in a producijos representativa servicencesi. Continua oblastina per admental process capability data and activo process capability segúniseoses.	viside and extent Price production representation on enforcement constructed against pilet line thought and the resident feed thought and the resident feed to go resemble from	Challing largers entrallabelosis. Counting Management Systems (2005) indements (e.g., control of concentral state (e.g., control of control o	Southly finds from the production impresentation environment, enforced and analyzed and transfer southly finds of fings received plans. Control plans completed for transfer and finds (Chambert Mark, Teal and Chambert Mark, Teal and developed for EMS) were.	Fey pagative Country Managements Systems meet Managements Solidary shandards, graphing land bridgery shandards, prophing to the state of the state o	hilly workhown removal to pilot requirement blendfuld by pilot conference to the pilot conference to the pilot conference to the pilot pilot to the blendful residence to pilot to production to pilot excitones approximative excitonessure.	Production tenting and PTUSE, design and development effects orderings, Mig. myslyment orderings, Mig. myslyment orderings, and artistical development.	Named nake is in 1887 (an 1884) Memediani and garant developed in produce 1,559 build in	Welland milgs plans drawn layerd, belg placesting too hasted in MPVV. Milg placesting too hasted in MPVV. Milg placesting too hasted in MPVV. Milgs and subjection placesting in MPVV. Milgs and subjection of MPVV. Mills and Section 1. Mills and spatial places in places to support pilled State.	Makenity placesce and EDE complete for pill like ledif, Makeni placesce systems in place for pill fine helds.	
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A Public-Private-Partnership: Department of Defense – Industry – Academia









THANK YOU!



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www.lift.technology