Industrial Technology Validation Program Opportunity: Application Questions

ONLY APPLICATIONS SUBMITTED VIA THE SUBMITTABLE ONLINE PORTAL WILL BE CONSIDERED

Industrial Technology Validation Program Application

Main Point of Contact Name (required)	
First Name (required)	
Last Name (required)	
Main Point of Contact Email (required)	
email@example.com	
Main Point of Contact Phone Number (required)	
■	
Alternate Point of Contact Name	
First Name	1
Last Name	1
Altaurata Daint of Cartagt Engil	
Alternate Point of Contact Email	
email@example.com	
Alternate Point of Contact Phone Number	
Attended Foliated Foliated Holine Namber	
Organization Name (required)	
Limit: 300	characters
Please make sure to use the official organization name such that multiple submissions from the same organization use the name consistently in all submissions.	missions.
Organization Street Address (required)	
Organization City (required)	
Location of Organization (State/Territory) (required)	
Select	~
Organization Zip Code (required)	

Organization Website (required)		
example.com		
Do you have a UEI? (required)		
○ Yes		
O In Process		
O No		
To learn more about the UEI, please visit SAM.gov I Home		
Project Information		
IN ORDER TO APPLY, PROJECTS MUST HAVE BOTH A COMMITTED HOST SITE AND TECHNOLOGY DEVELOPER IDENTIFIED. Host sites and technology developers should work together to develop application content. However, the application may be filled out and submitted by either party. Whichever party submits the final application must obtain and submit a dedicated letter of commitment from the other party, or the application will not be considered.		
Note the word count limits for each question (not including supporting documents). Any submission deemed to contain insufficient content for a thorough evaluation will be eliminated from consideration.		
Host Site		
Note: The proposed demonstration location must be an industrial site (e.g. a manufacturing facility, water/wastewater treatment plant, or data center) located within the U.S.		
waim the U.S.		
Company Name (required)		
Street Address (required)		
City (required)		
Location of Host Site (State/Territory) (required)		
Select V		
Zip Code (required)		
Applicant Name (required)		
First Name (required)		
Last Name (required)		

Applicant Email (required) email@example.com Applicant Phone Number (required) Provide the names of the host site team members who will be involved during the engagement with the ITV program based on the roles listed below. Note: In some cases, the same person may fill more than one role. Host Site Executive Lead This individual is responsible for overseeing all high-level decisions regarding the host site. They are the primary point of contact for all site-related matters.
Applicant Phone Number (required) Provide the names of the host site team members who will be involved during the engagement with the ITV program based on the roles listed below. Note: In some cases, the same person may fill more than one role. Host Site Executive Lead
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Host Site Executive Lead
This individual is responsible for overseeing an high-level decisions regarding the nost site. They are the primary point of contact for all site-related matters.
First Name (required)
Last Name (required)
Email (required)
email@example.com
Phone (required)
Host Site Technical Lead
This individual is the most competent subject matter expert of the impacted technical systems at the host site.
First Name (required)
This realite (required)
Last Name (required)
Email (required)
email@example.com
Phone (required)

Host Site Facility Lead

This individual is in charge of the physical location and all day-to-day activities occurring on site.

First Name (required)		
Last Name (required)		
Email (required)	_	
email@example.com		
Phone (required)	_	
Technology Developer		
Company Name (required)		
Street Address (required)		
City (required)		
Location of Technology Developer (State/Territory) (required)		
Select	′	
Zip Code (required)		

Provide the names of the technology developer team members who will be involved during the engagement with the ITV program based on the roles listed below.

Note: In some cases, the same person may fill more than one role.

Technology Developer Executive Lead

This individual is responsible for overseeing all high-level decisions for the technology. They are the primary point of contact for all technology-related matters.

First Name (required)
Last Name (required)
Eil c
Email (required)
email@example.com
Phone (required)
Technology Developer Technical Lead
This individual is the most competent subject matter expert on the technology and impacted systems.
First Name (required)
Last Name (required)
Email (required)
email@example.com
Phone (required)
Technology Developer Project Lead
This individual is in charge of the day-to-day activities regarding demonstrating the technology on site.
First Name (required)
Last Name (required)
Email (required)
email@example.com
Phone (required)

Project Title and Summary

Descriptive Title (required)	
	Limit: 50 words
Recla	le an informative and measured descriptor of the proposed technology in general terms to be tested (e.g., "Thermoelectric Generator for Waste Heat mation"). The title submitted will be used by the review team when discussing the proposed technology. Please do not use a product, unsupported claims, and name for the title.
Proje	ect Summary (required)
	Limit: 300 words
	ibe the technology and specify how it is projected to benefit operations, optimize performance, or improve competitiveness at the host site. Use links to ferences as needed.
Ted	chnology Classification
Indio	cate the category that most accurately describes the technology: (required)
0	"Pre-commercial Technology" – technology that is not yet fully available on the open market and has a value proposition or price that is still being defined.
\circ	"Early Commercial Technology" – technology whose value and risks are understood by specialists for some applications, but the supply chain and/or full-scale production have not yet been fully established.
\bigcirc	"New Applications" – technology will be demonstrated in a different sector or use case than conventionally deployed.
0	"Underutilized" – technology is commercialized, but adoption within the U.S. or within a relevant industry is not widespread.
Prov	ride a brief explanation/justification for why the technology belongs in this classification (required)
	Limit: 300 words

INFORMATION PROVIDED FOR ALL QUESTIONS BELOW (AND FOR THE REMAINDER OF THIS APPLICATION) WILL BE CONSIDERED PRIVILEGED AND CONFIDENTIAL COMMUNICATION

echnology Overview
Describe the proposed technology (required)
Limit: 700 w
clude sufficient detail on the technology's theory, functionality, and operations. If applicable, include schematics, diagrams, or other information that help cplain the technology in an attachment below.
roposed Technology Attachment(s)
Choose File
pload a file. No files have been attached yet.
cceptable file types: .doc, .docx, .pdf
Limit 700
Where possible, include laboratory or validated performance data associated with aspects of the proposed technology. This could include, for example, per reviewed journal articles, lab reports, or endorsements from previous users of the technology. Please do not include promotional or marketing materials cre by the technology developer. Provide a summary here and if necessary, provide additional information as an attachment. If laboratory or validated performa data is not available for aspects of the technology, please provide other empirical evidence or documented field experience related to the technology's performance.
Laboratory or Validated Performance Data Attachment(s)
Choose File
Upload a file. No files have been attached yet.
Acceptable file types: .doc, .docx, .pdf, .xls, .xlsx
How is the technology innovative? (required)

Describe how the technology represents an advancement or innovation when compared to existing technologies, solutions, and practices typically deployed in industry and specifically deployed at the host site.

Agreement Attachment(s) (required)	
Choose File	
Upload a file. No files have been attached yet.	
Acceptable file types: .doc, .docx, .pdf	
Attach a copy of any signed agreements (e.g. Cooperative Agreements, Joint Development Agreements, Memorandum of Understanding). If a signed agreement does not exist, upload a letter of support from executive/upper management for the technology developer organization detailing interest and commitment to the ITV program. You are encouraged to reference a template commitment letter here , which should be included on company letterhead and signed.	
Host Site Overview Describe the site and the specific industrial process where the technology is being applied (required)	
Include a brief summary of expected performance improvement of the technology compared to the incumbent technology, solution, or practice. Include specific metrics (e.g., "reduce energy intensity of the process by 20%). How did the host site learn about the proposed technology? (required)	
Limit: 300 words	
Describe when and how the host site learned about the technology and how the technology is expected to benefit the site. Describe any existing relationship between the host site and technology developer and the technology developer's familiarity with the host site and its processes. If possible, state the nature of any signed agreements (e.g. Cooperative Agreements, Joint Development Agreements, Memorandum of Understanding).	
Agreement Attachment(s) (required)	
Choose File	
Upload a file. No files have been attached yet. Acceptable file types: .doc, .docx, .pdf	
Attach a copy of any signed agreements (e.g. Cooperative Agreements, Joint Development Agreements, Memorandum of Understanding). If a signed agreement	
does not exist, upload a letter of support from executive/upper management for the host site organization detailing interest and commitment to the ITV program. You are encouraged to reference a template commitment letter here, which should be included on company letterhead and signed.	

Technology Installation

Describe in detail the existing system(s) the technology will be replacing and the system configuration after the new technology is installed.

Provide a detailed description of the existing system(s). Clearly identify all the major components and subsystems that will be modified or affected by the integration of the new technology. Include key functions and any dependencies with other equipment or processes. (required)
Limit: 700 word:
Provide a detailed description of the system configuration after installation of the new technology. Clearly outline the new components introduced, how they integrate with existing equipment, and the resulting expected changes to system performance or operation. Schematics or line diagrams are encouraged and may be provided as attachments. Indicate whether the installation is intended to be a permanent, full-scale replacement of an existing system, a temporary installation to verify performance, or a parallel, partial-scale installation that will operate alongside an existing system. If applicable, identify any other equipment or systems affected by the new technology. Describe how these interactions might influence testing requirements or performance evaluation. (required)
Harla 700 and
Limit: 700 word:
System Configuration Attachment
Choose File Upload a file. No files have been attached yet.
Acceptable file types: .doc, .docx, .pdf, .xls, .xlsx
Schematics or line diagrams are encouraged and should be uploaded here.
Installation Timeline (required)
Limit: 250 words If this application is selected, from the time the notification of selection is received, how long would it take to fully install the technology at the selected host site?
Note: The technology must be installed within 12 months from the notification of selection. Be sure to consider lead times of materials required as part of the installation among other factors such as any host site constraints (maintenance requirements, production schedules, system shutdowns) in these estimates. A detailed timeline of the installation should be included below.
Detailed Timeline of Installation (required)
Choose File Upload a file. No files have been attached yet.
Acceptable file types: .doc, .docx, .pdf, .xls, .xlsx

Please use the template found $\underline{\text{here}}$.

Potential Risks

Are there any potential risks that could prevent or delay installation of the technology (e.g., inability to access secure internal networks or interoperability/compatibility with existing platforms or devices)? (required)
Limit: 600 word:
Please describe each risk and discuss how it will be managed or mitigated.
What potential barriers could prevent this technology from performing as intended once installed (e.g. technical issues or maintenance requirements)? (required)
Limits COO word
Limit: 600 word: Discuss how these barriers will be addressed or prevented.
Performance Improvement Methodology
Describe potential methods and key performance indicators that should be used to test the performance improvement resulting from adoption of the technology compared to the current existing baseline.
Note: The Lawrence Berkeley National Laboratory (LBNL) team will be developing the final measurement and verification (M&V) plan, in consultation with the technology developer and host site. This section is intended to provide a starting point for developing the M&V plan.
If needed, can the baseline collection period duration or relevant historical data be made accessible for up to 12 months? (required)
Limit: 700 word:
If needed, can the new technology be kept online and validated for up to 12 months? (required)
Limit: 700 words

Technology Impact

Describe the performance improvement benefits as well as any other benefits of the proposed technology (required)	
	Limit: 700 words
Provide a detailed description of the expected operational improvement benefits of the technology compared of Describe how the technology may offer other non-energy or indirect benefits (e.g., health and safety, economic benefits). Note: Claims under consideration should be substantiated with publicly available documentation (referencements, etc.).	cs, productivity, product quality, environmental
How will participation in the ITV program accelerate adoption of the proposed techno	logy? (required)
	Limit: 350 words
Describe how participation in the ITV evaluation will enable the technology developer to overcome barriers to development, access financing, attract customers).	market adoption (e.g. accelerate product
	Limit: 350 words
How will the M&V report be used by the technology developer after the ITV program, echnology developer (for example, to share with prospective investors to demonstra	•
	Limit: 350 word
	Elilla 330 Work
What is the potential for this technology to reach wide-scale deployment? (required)	
	Limit: 400 word

Provide a description of how this technology, or aspects of this technology, can reach wide-scale deployment. This should include classification of early adopters and target markets that could benefit from deployment of this technology. Relative to the specific proposed application, as well as the broader U.S. industrial sector, roughly estimate the magnitude of the potential deployment opportunities.

Need for Financial Assistance

Acceptable file types: .doc, .docx, .pdf, .xls, .xlsx

Funding Requested (required)	
\$ USD	
Project Budget (required)	
: ! !	Choose File
Upload a file. No files have been attach	ed yet.
Acceptable file types: .pdf, .xls, .xlsx	
	se of the project, following the budget template <u>here</u> . Budget should include all relevant project costs including ses, expected staff or contractor time dedicated to installation, and indirect facilities or administrative costs. Budgets
should also clearly delineate which part	y will bear each cost. Note that costs may include in-kind contributions (for example, if a technology developer donates the value of this equipment should be considered a cost to the developer).
Funding Impact (consists 4)	
Funding Impact (required)	
-	Limit: 400 words will have on the project implementation, and why it cannot be funded wholly through other sources. Describe any efforts to , rebates, incentives, etc.) and plans for other funding to support the proposed project after DOE funding ends.
Note: Federal funding from other source	es may not be used as cost share for this opportunity.
Other	
The Host Site and Technology	Developer attest the following:
Cost share will not include funding	g from any other Federal Award, foregone fee, or profits.
equipment/system as well as the	lidation, both the Host Site and Technology Developer are willing to provide raw data files for the current equipment/system being tested, and understand that some elements of this data may be published as part of the analysis
report. • The Technology Developer under	stands that they will provide the equipment or technology to be tested. The Host Site understands that they will provide
	vill occur, manage the installation, and provide performance data from both the existing baseline system and the newly
☐ I agree to the attestations I	isted above (required)
Supporting Documents (option	al)
	Choose File
Upload a file. No files have been attache	ed yet.

If not provided elsewhere in this application, please provide any additional relevant resources to support your application. This could include resources that help explain the technology or parts of the technology, including verification of performance claims from previous stages of development (e.g., cut sheets, press, studies, or published findings or reports) as described previously.

Do you have any pending funding/support from DOE to disclose? (required)	
\circ	Yes
\circ	No
How did you hear about ENERGYWERX? (required)	
	Conference
	Contacted by ENERGYWERX
	Co-Worker
	Ratio Exchange
	Sam.gov
	Social Media
	Website
I am representing: (required)	
\bigcirc	Academia
\bigcirc	For Profit - Large Business
\bigcirc	For Profit - Small Business
\bigcirc	Non-Profit Organization
\circ	National Lab
\circ	Government - Not AHJ
0	Government - Authority Having Jurisdiction (State, Local, Tribal)
0	Utility
0	Other
Have you received assistance or DOE funding in the past? (required)	
\bigcirc	Yes
\bigcirc	No
Have you received DOE assistance or DOE funding in the last 5 years? (required)	
\bigcirc	Yes

Certifications

- DOE reserves the right to require additional or clarifying information regarding the application submissions, the team, and any other matters related to the anticipated funding. Applicants selected for negotiation will be required to agree to standard DOE funding legal terms and conditions.
- I certify that the named applicant is a domestic entity and is not owned by, controlled by, or subject to the jurisdiction or direction of a government of a
 Country of Risk and meets the eligibility requirements for this program. DOE defines Country of Risk to include China, Russia, North Korea and Iran.
- I certify that the information contained in the submission is true and contains no misrepresentations. I understand that any false, fictitious, or fraudulent information, misrepresentations, half-truths, or omissions of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (18 U.S.C. §§ 1001 and 287, and 31 U.S.C. 3729-3733 and 3801-3812). I further understand and agree that the statements and representations made herein are material to DDE's funding decision.
- Persons participating in a Foreign Government-Sponsored Talent Recruitment Program of a Foreign Country of Risk* are prohibited from participating in projects selected for federal funding under this Opportunity. Should an award result from this Opportunity, the recipient must exercise ongoing due diligence to reasonably ensure that no individuals participating on the DOE-funded project are participating in a Foreign Government-Sponsored Talent Recruitment Program of a Foreign Country of Risk. Consequences for violations of this prohibition will be determined according to applicable law, regulations, and policy. Further, the recipient must notify DOE within five (5) business days upon learning that an individual on the project team is or is believed to be participating in a foreign government talent recruitment program of a foreign country of risk. DOE may modify and add requirements related to this prohibition to the extent required by law.
- I certify that the information contained in the submission does not contain confidential, proprietary, or privileged information.
- * Foreign Government-Sponsored Talent Recruitment Program is defined as an effort directly or indirectly organized, managed, or funded by a foreign government, or a foreign government instrumentality or entity, to recruit science and technology professionals or students (regardless of citizenship or national origin, or whether having a full-time or part-time position). Some foreign government-sponsored talent recruitment programs operate with the intent to import or otherwise acquire from abroad, sometimes through illicit means, proprietary technology or software, unpublished data and methods, and intellectual property to further the military modernization goals and/or economic goals of a foreign government. Many, but not all, programs aim to incentivize the targeted individual to relocate physically to the foreign state for the above purpose. Some programs allow for or encourage continued employment at United States research facilities or receipt of federal research funds while concurrently working at and/or receiving compensation from a foreign institution, and some direct participants not to disclose their participation to U.S. entities. Compensation could take many forms including cash, research funding, complimentary foreign travel, honorific titles, career advancement opportunities, promised future compensation, or other types of remuneration or consideration, including in-kind compensation.

I agree to the Certifications listed above. (required)
☐ I agree
DOE retains the prerogative to require additional information from the applicants to verify the applicant meets the eligibility requirements. Further, DOE retains the prerogative to decide whether to fund the proposed project entirely, partially, or not at all. (required)
○ I agree
I agree to join the ENERGYWERX ecosystem and receive news about future opportunities. (required)
○ I agree
Note to Organizer:
Note to Organizer.
Limit 400 west

Drafts may be visible to the administrators of this program.

Save Draft