



OFFICE OF MANUFACTURING AND ENERGY SUPPLY CHAINS

OFFICE OF STATE & COMMUNITY ENERGY PROGRAMS

FOA Applicant Webinar – Full Applications

July 18, 2023



Bipartisan Infrastructure Law (BIL): Industrial Assessment Center (IAC) Program Expansion at Trade Schools, Community Colleges, and Union Training Programs; and Building Training and Assessment Centers (BTAC) Program

DE-FOA-0002940



Welcome

This webinar is being recorded and will be published on the Infrastructure eXCHANGE website.

- If you do not wish to have your voice recorded, please do not speak during the call.
- If you do not wish to have your image recorded, please turn off your camera or participate by phone.
- If you speak during the call or use a video connection, you are presumed to consent to recording and use
 of your voice or image.

Please mute your phones and we'll begin momentarily.





Notice

- NO NEW INFORMATION OTHER THAN THAT PROVIDED IN THE FOA WILL BE DISCUSSED IN THE WEBINAR.
- There are no particular advantages or disadvantages to the application evaluation process with respect to participating in the webinar today.
- Your participation is completely voluntary.
- All applicants are strongly encouraged to carefully read the Funding Opportunity Announcement DE-FOA-0002940 and adhere to the stated submission requirements.
- This presentation summarizes contents of the FOA. If there are any inconsistencies between the FOA and this
 presentation or statements from DOE personnel, the FOA is the controlling document and applicants should rely on
 the FOA language and seek clarification by submitting a question.
- Please put your questions in the chat; we will answer them in the public Q&A spreadsheet on <u>Infrastructure eXCHANGE</u>

Do NOT wait until the last minute to submit your application!





Agenda

FOA Schedule

FOA Overview

- Topic Areas
- Who is Eligible to Apply
- Budget

Content and Form of the Full Application

- Full Application Content Requirements
- File Format and Page Limits
- Post Selection Information Requests

Questions about this FOA? Put them in chat or email IACProgram@doe.gov and find answers at Infrastructure eXCHANGE





FOA Schedule

Preamble, page i

FOA Issue Date	4/7/2023
Informational Webinar	4/18/2023
Submission Deadline for Concept Papers	6/16/2023
Second Informational Webinar (for Concept Paper Applicants)	7/18/2023
Submission Deadline for Full Applications	8/15/2023 (5PM ET)
Expected Date for DOE Selection Notifications	Fall 2023
Expected Timeframe for Award Negotiations	Fall/Winter 2023-2024





FOA Overview

FOA Title: Bipartisan Infrastructure Law: Industrial Assessment Center (IAC) Program – IACs at Trade Schools, Community Colleges, and Union Training Programs; and Building Training and Assessment Centers (BTAC) Program

FOA Number: DE-FOA-0002940

Main Objective: To establish IACs at trade schools, community colleges, and union training programs (including joint labor-management training programs), as well as to establish BTACs.

- The IAC Program will support IAC awardees to deliver hands-on technical training necessary for high-quality clean energy jobs and career pathways while concurrently bolstering the nation's small- and medium-sized manufacturing base by promoting best practices for reducing industrial emissions and enhancing energy efficiency and productivity.
- The BTAC Program focuses on commercial and institutional buildings to train building energy efficiency professionals in energy-efficient design and operation to meet local and regional workforce demand, and to provide critical energy efficiency assessments and upgrades to improve the environmental performance of commercial and institutional buildings, especially those in areas that have been historically underserved.

Topic Areas (TAs):

- 1. IACs at Community Colleges and Trade Schools
- 2. IACs at Union Training Programs
- 3. Building Training and Assessment Centers Program





Topic Area 1: IACs at Community Colleges and Trade Schools

Section I. B. i

The objective of this Topic Area is to support the establishment of new IACs at community colleges and trade schools that will build upon the demonstrated success of the applied learning environment and hands-on training approach of the traditional IACs, while simultaneously drawing on the unique strengths, geographic reach, and faculty/student composition of trade schools and community colleges.

Applications are invited from individual community colleges or trade schools or entities that comprise multiple eligible entities such as State community college systems.

Applicants should describe in detail the **industry-recognized credentials** or degrees that students will achieve or progress toward by participating in IAC programming.

Applications should also describe how the organization will develop and deliver effective technical assistance for regional Small and Medium Manufacturers (SMMs) consistent with the purposes of the IAC Program* but adjusted to the context of applying institutions and their surrounding communities, while concurrently offering training, hands-on experience, and career supports for students.

Technical areas of interest include but are not limited to:

- Additive Manufacturing
- · Advanced Manufacturing
- · Battery Energy Storage
- Carbon Capture Utilization and Sequestration (CCUS)
- Combined Heat and Power (if net-zero aligned)
- Energy Efficiency
- · Energy Management
- Geothermal Technologies
- HVAC with focus on Heat Pump Technologies

- Hydrogen and Fuel Cell Technologies
- Solar Energy
- Smart Manufacturing
- Sustainable Manufacturing
- · Water and Wastewater Management
- MESC also will consider innovative proposals that incorporate other IAC-supported areas, such as cybersecurity, supply chain management, or industrial and manufacturing processes, provided that they incorporate elements of optimizing operations and reducing emissions consistent with the objectives of the IAC program.



^{*} See Section I.A.i., e.g., providing in-depth assessments of SMM plant site facilities, services, operations; identify opportunities for SMMs to optimize energy efficiency and performance; promote applications of emerging concepts and technologies; etc.



Who is Eligible to Apply As a **Prime Recipient**? Topic Area 1:

Section III. A. i.

Only the following entities are eligible to apply as **prime recipients*** under this Topic Area:

- Community colleges,
- Community College Systems, and
- **Trade schools**, which are defined as educational institutions, other than community colleges and union training programs, that offer career and technical education leading to industry-recognized credentials or degrees. Trade schools include entities that are nested within larger institutions that grant bachelor's or graduate degrees (e.g., extension schools), but proposed projects must focus on students who are seeking non-bachelor's or graduate credentials.
- * The following types of domestic entities are eligible to participate as a subrecipient of this FOA:
- 1. Any institution eligible to be a prime recipient
- 2. Other institutions of higher education;
- 3. For-profit entities;
- 4. Non-profit entities; and
- 5. State and local governmental entities, and Indian tribes.





Topic Area 2: IACs at Union Training Programs

Section I. B. ii

This Topic Area will support the establishment of new IACs at union training programs (including joint labor-management programs) that will build upon the demonstrated success of the applied learning environment and hands-on training approach of the traditional IACs, while simultaneously drawing on the unique strengths, geographic reach, and incumbent worker-focused orientation of union training programs and joint labor-management training programs to support small and medium-sized manufacturers.

As with the IACs discussed in Topic Area 1, DOE intends that these new IACs will use innovative solutions to develop and deliver hands-on technical training necessary for high-quality clean energy jobs and career pathways while concurrently bolstering the nation's small- and medium-sized manufacturing base by promoting best practices for reducing industrial emissions and enhancing energy efficiency and productivity, consistent with the purposes of the IAC program*.

Technical areas of interest include but are not limited to:

- Additive Manufacturing
- Advanced Manufacturing
- Battery Energy Storage
- Carbon Capture Utilization and Sequestration (CCUS)
- Combined Heat and Power (if net-zero aligned)
- Energy Efficiency
- Energy Management
- Geothermal Technologies
- HVAC with focus on Heat Pump Technologies

- Hydrogen and Fuel Cell Technologies
- Solar Energy
- · Smart Manufacturing
- · Sustainable Manufacturing
- Water and Wastewater Management
- MESC also will consider innovative proposals that incorporate other IAC-supported areas, such as cybersecurity, supply chain management, or industrial and manufacturing processes, provided that they incorporate elements of optimizing operations and reducing emissions consistent with the objectives of the IAC program.



^{*} See Section I.A.i., e.g., providing in-depth assessments of SMM plant site facilities, services, operations; identify opportunities for SMMs to optimize energy efficiency and performance; promote applications of emerging concepts and technologies; etc.



Who is Eligible to Apply? Topic Area 2: Section III. A. i.

Only the following entities are eligible to apply as prime recipients* under this Topic Area:

Union Training Programs, which are defined as credential-granting training programs
 (including joint labor-management training programs) administered by (a) a union or
 group of unions certified by the National Labor Relations Board or (b) a Joint
 Apprenticeship and Training Committee composed of an equal number of
 representatives of relevant employer(s) and employees represented by a collective
 bargaining agreement.

- 1. Any institution eligible to be a prime recipient
- 2. Other institutions of higher education;
- 3. For-profit entities;
- 4. Non-profit entities; and
- 5. State and local governmental entities, and Indian tribes.



^{*} The following types of domestic entities are eligible to participate as a subrecipient of this FOA:



Topic Area 3: Building Training and Assessment Centers (BTAC) Program Section I. B. iii

This Topic Area will provide grants to institutions of higher education to establish building training and assessment centers (BTACs) to educate and train building technicians and engineers on implementing modern building technologies specific to commercial and institutional buildings.

To the greatest extent practicable, BTACs should be co-located with IACs. Applicants for funding should address how they intend to advance workforce development and all the following:

- · Identify opportunities for optimizing energy efficiency and environmental performance in buildings
- Promote the application of emerging concepts and technologies in commercial and institutional buildings
- Train engineers, architects, building scientists, building energy permitting and enforcement officials, and building technicians in energy-efficient design and operation
- Assist institutions of higher education and Tribal Colleges or Universities in training building technicians
- Promote research and development for the use of alternative energy sources and distributed generation to supply heat and power for buildings, particularly energy-intensive buildings
- Coordinate with and assist State-accredited technical training centers, community colleges, Tribal Colleges or Universities, and local offices of the National Institute of Food and Agriculture and ensure appropriate services are provided under this section to each region of the United States





Topic Area 3: Building Training and Assessment Centers (BTAC) Program

The funding for Building Training and Assessment Centers is provided solely by the Bipartisan Infrastructure Law. **Applicants should detail how they plan to use this seed funding to launch a program that can be sustained absent DOE funding**. Applicants may want to explore partnering with state workforce development entities or utility energy efficiency programs that may have funding to supplement the funding being awarded by DOE.

Applications with some or all of the following elements are encouraged:

- Community organization and/or local government partnerships, especially partnerships with organizations that work directly with disadvantaged communities.
- Partnerships with training providers, relevant certification bodies, and local/regional clean energy workforce employers.
- Partnerships with regional utilities, contractors, local grant or lending agencies to assist with financing and implementation of assessment recommendations.
- Trade unions, public employee unions, service sector unions and joint labor-management training programs, including registered apprenticeships.
- Programs that target small businesses or organizations owned or led by individuals from underrepresented groups in client outreach.
- Innovative ideas for partnership structure, training, and methods to bring energy efficiency upgrades to underserved commercial building clients.
- Coordination with the state workforce development agency or plan.





Who is Eligible to Apply? Topic Area 3: Section III. A. i.

Only the following entities are eligible to apply as prime recipients under this Topic Area:

- Institutions of higher education; which means as an institution of higher education as defined under 20 U.S.C. § 1001.
- Tribal colleges or universities, which are defined as Tribal Colleges or Universities serving Indian students, as recognized in 20 U.S.C. § 1059c(b).





Budget

Section II. A. i.

Total Amount to be Awarded	Up to \$54,000,000*
	Topic Area 1: \$450,000 - \$3,000,000, with awards toward the larger end of that range, if made, especially likely to be to entities, such as State-wide community college systems, that comprise multiple institutions
Award Amount	Topic Area 2: \$450,000 - \$9,000,000, with awards toward the larger end of that range, if made, especially likely to be national entities that work in multiple geographies
	Topic Area 3: \$950,000 - \$1,100,000
Type of Funding Agreements	Cooperative Agreements
Period of Performance	36 months
Cost Share	Not required

*Subject to the availability of appropriated funds





Content and Form of the Full Application Section IV. D.

Applicants must complete the following application forms found on the Infrastructure eXCHANGE website at https://infrastructureexchange.energy.gov/.

Regardless of the date the applicant receives the Encourage/Discourage notification, the submission deadline for the Full Application remains the date and time stated on the FOA cover page.

All Full Application documents must be marked with the control number issued to the applicant.





Full Application Contents Section IV. D. i.

Component	File Format	Page Limit	File Name	Required?
1. Technical Volume	PDF	25	ControlNumber_LeadOrganization_TechnicalVolume	Required
2. Resumes	PDF	3 pages each	ControlNumber_LeadOrganization_Resumes	Required for each project manager and key personnel
3. Letters of Commitment	PDF	1 page each	ControlNumber_LeadOrganization_LOCs	If applicable
4. Community Partnership Documentation	PDF	10	ControlNumber_LeadOrganization_PartnerDoc	Optional
5. Statement of Project Objectives	MS Word	5	ControlNumber_LeadOrganization_SOPO	Required
6. SF-424: Application for Federal Assistance	PDF	n/a	ControlNumber_LeadOrganization_App424	Required
7. Budget Justification Workbook	MS Excel	n/a	ControlNumber_LeadOrganization_Budget_Justification	Required
8. Summary for Public Release	PDF	1	ControlNumber_LeadOrganization_Summary	Required
9. Summary Slide	MS PowerPoint	1	ControlNumber_LeadOrganization_Slide	Required
10. Subrecipient Budget Justification	MS Excel	n/a	$Control Number_LeadOrganization_Subrecipient_Budget_Justification$	If applicable
11. DOE Work Proposal for FFRDC, if applicable (see DOE O 412.1A, Attachment 2)	PDF	n/a	ControlNumber_LeadOrganization_WP	If applicable
12. Authorization from cognizant Contracting Officer for FFRDC	PDF	n/a	ControlNumber_LeadOrganization_FFRDCAuth	If applicable
13. SF-LLL Disclosure of Lobbying Activities	PDF	n/a	ControlNumber_LeadOrganization_SF-LLL	Required
14. Foreign Entity Waiver Requests and Foreign Work Waiver Requests	PDF	n/a	ControlNumber_LeadOrganization_Waiver	If applicable
15. Current and Pending Support	PDF	n/a	ControlNumber_LeadOrganization_CPS	If applicable
16. Locations of Work	PDF	n/a	ControlNumber_LeadOrganization_LOW	Required
17. Transparency of Foreign Connections	PDF	n/a	ControlNumber_LeadOrganization_TFC	If applicable
18. Potentially Duplicative Funding Notice	PDF	n/a	ControlNumber_LeadOrganization_PDFN	If applicable

Do NOT wait until the last minute to submit your application!

Note: Any document exceeding the page limit will not be reviewed past the limitation.

The maximum file size that can be uploaded to the Infrastructure eXCHANGE website is 50MB. See Section IV.B.





1. Technical Volume (required)

File Format: PDF Page Limit: 25

The Technical Volume to the Full Application **may not be more than 25 pages**, including the cover page, table of contents, and all citations, charts, graphs, maps, photos, or other graphics, and must include all of the information in the following slides. The applicant should consider the weighting of each of the technical review criterion (see Section V. of the FOA) when preparing the Technical Volume.

The Technical Volume should clearly describe and expand upon information provided in the Concept Paper.





Technical Volume Content Requirements (1/5)

File Format: PDF Page Limit: 25

1. Cover Page

- Project title
- Topic Area
- · Business point of contact
- Name(s) of the project manager(s)
- Names of team member organizations
- Names of senior/key personnel
- Project location(s)
- Any statements regarding confidentiality

2. Project overview (~10% of the technical volume):

- Background
- Project goals (incl. community and labor engagement, proposed facilities and equipment, and proposed project partners)
- Impact of DOE funding

See next slides

- 3. Project Description, Innovation, Impact and Community Benefits Plan (~50%)
- 4. Workplan (~20%)
- 5. Technical Qualifications and Resources (~20%)





Technical Volume Content Requirements (2/5)

File Format: PDF Page Limit: 25

3. Project Description, Innovation, Impact and Community Benefits Plan

(~50% of the Technical Volume):

- Technical Training Area: Descriptions of (a) the technical training that will be provided to participants, (b) curricula, equipment, and other resources, (c) technical services provided to clients during on-site training.
- Regional Context: The region to be served, with a focus on (a) clean energy workforce trends, (b)
 the needs of potential IAC or BTAC clients, and (c) alignment with place-based economic
 development strategies.
- o **Innovation and Impact for Trainees:** The current regional baseline for training in the area and the advantages of the proposed project in improving upon that baseline.
- o Client Impact and Outreach: Plans for reaching out to SMMs for the IAC program and small commercial buildings (50,000 square feet or less) or K-12 schools for the BTAC program.
- Collaboration and Coordination: Coordination with/leveraging of existing programs and training infrastructure/resources
- Impact and Community Benefits plan: See next slide





Technical Volume Content Requirements (3/5)

File Format: PDF Page Limit: 25

3. Project Description, Innovation, Impact and Community Benefits Plan

(~50% of the Technical Volume):

- Community Benefits Plan: addressing the following four core elements:
 - Community and Labor Engagement: E.g., actions and plans to engage unions, Tribal entities, and community-based organizations that support or work with disadvantaged communities).
 - **Job Quality and Development of a Skilled Workforce:** How the project will improve job quality through partnerships and employment opportunities including the highest standards of workplace health, safety and employees' free ability to organize. Plans for connecting students with pathways to employment.
 - **Diversity, Equity, Inclusion, & Accessibility:** E.g., how the applicant will recruit diverse participants and ensure access for students with barriers to employment, any plans to provide comprehensive support services, and any plans to partner to help address DEIA. The applicant should use the Council on Environmental Quality's Climate & Economic Justice Screening Tool to identify disadvantaged communities.
 - Justice40 Initiative: The benefits to disadvantaged communities that the project can deliver (e.g., an increase in high-quality job creation, the clean energy job pipeline, and job training for individuals, and other benefit categories described in the FOA).





Technical Volume Content Requirements (4/5)

File Format: PDF Page Limit: 25

4. Workplan (~20% of the Technical Volume)

- •Project Objectives, as well as the expected outcomes.
- •Technical Scope Summary, with performance periods that are separated by discrete, ~annual decision points and expected end results (incl. milestones in the Community Benefits Plan).
- Project Schedule (Gantt Chart or similar), incl. Go/No-Go decision points.
- •Task Descriptions: The work to be accomplished and specific activities to be conducted.
- •Milestones: 1+ milestone (which can be an activity-based progress measure) per quarter, as well as 1+ SMART milestone per year for the duration of the project in each of (1) Innovation and Impact for Trainees, (2) Innovation and Impact for Clients, (3) Community and Labor Engagement, (4) Job Quality and Development of a Skilled Workforce, (5) DEIA, and (6) Justice40.
- •Go/No-Go Decision Points: 1+ SMART milestone as a project-wide Go/No-Go decision point for each budget period.
- End of Project Goal
- •Whether Buy America Requirements for Infrastructure Projects are Applicable: Whether the project will involve the construction, alteration, and/or repair of infrastructure in the U.S. (see Appendix D for more).
- •Project Management: Approach and organization for managing the work, role of each team member, management systems and practices, risks and mitigation strategies.
- ·Workplan should be consistent with the "statement of project objectives" discussed later.





Technical Volume Content Requirements (5/5)

File Format: PDF Page Limit: 25

5. Technical Qualifications and Resources (~20% of the Technical Volume)

- The project team's relevant qualifications, expertise, and experience.
- Relevant previous work efforts, and their demonstrated innovation and impact.
- The project team's existing equipment and facilities, and justification of any new equipment or facilities requested.
- The time commitment of the key team members.
- The technical services to be provided by DOE/NNSA FFRDCs, if any.
- For multi-organizational projects, describe succinctly:
 - The roles and the work to be performed by the Project Manager and senior/key personnel at the prime- and sublevels;
 - o Business agreements between the applicant and any subs; and
 - How efforts will be integrated and managed.





2. Resumes (required for some team members)

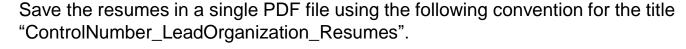
File Format: PDF Page Limit: 3 pages each

Applicants must submit a resume for each project manager and key personnel that includes :

- 1. Contact Information
- 2. Education
- 3. Training: (e.g., certification or credential from a Registered Apprenticeship)
- 4. Professional Experience
- 5. There should be no lapses in time over the past ten years or since age 18, which ever time period is shorter.

As an alternative to a resume, it is acceptable to use the biographical sketch format approved by the National Science Foundation (NSF). See https://www.ncbi.nlm.nih.gov/sciencv/, and https://nsf.gov/bfa/dias/policy/nsfapprovedformats/biosketch.pdf.

	NSF BIO	GRAPHICAL S	KETCH	OMB-3145-005
*NAME				*Required fields
ORCID ID (Optional)				
*POSITION TITLE				
*PRIMARY ORGANIZAT	ION & LOCAT	ION		
*PROFESSIONAL PREP	ARATION - (s	ee PAPPG Chap	ter II.D.2.h.i.a.3)	
PREVIOUS ORGANIZATION(S) & L		DEGREE (if applicable)	RECEIPT DATE* (MM/YYYY)	FIELD OF STUDY
Note - For Fellowship applicants only *APPOINTMENTS AND Start Date - End Date	POSITIONS -	(see PAPPG Ch		and Location







3. Letters of Commitment (if applicable)

File Format: PDF Page Limit: 1 page each

Submit letters of commitment from **all subrecipient and third-party cost share providers.** If applicable, the letter must state that the third party is committed to providing a specific minimum dollar amount or value of in-kind contributions allocated to cost sharing. The following information for each third party contributing to cost sharing should be identified:

- (1) the name of the organization;
- (2) the proposed dollar amount to be provided; and
- (3) The proposed cost sharing type (cash or in-kind contributions).

Each letter must not exceed 1 page.

Letters of support or endorsement for the project from entities that do not have a substantive role in the project are not accepted.







4. Community Partnership Documentation (optional)

File Format: PDF Page Limit: 10

In support of the Community Benefits Plan, applicants may submit documentation to demonstrate existing or planned partnerships with community entities, such as, organizations that work with local stakeholders most vulnerable to or affected by the project, such as organizations that carry out workforce development programs, labor unions, Tribal organizations, and community-based organizations that work with disadvantaged communities.

The Partnership Documentation could be in the form of a letter on the partner's letterhead outlining the planned partnership signed by an officer of the entity, a Memorandum of Understanding, or other similar agreement. Such letters must state the specific nature of the partnership and must not be general letters of support. If the applicant intends to enter into a Workforce and Community Agreement as part of the Community Benefits Plan, please include letters from proposed partners as appropriate.

Each letter must not exceed 1 page. In total, the partnership documentation must not exceed 10 pages.



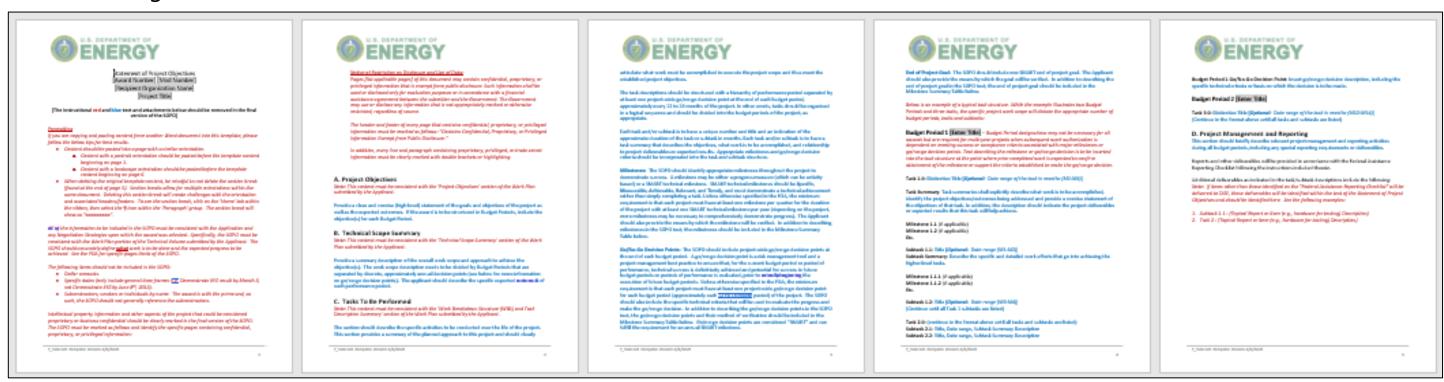


5. Statement of Project Objectives (SOPO - required)

File Format: MS Word Page Limit: 5

Applicants must complete a SOPO. A SOPO template is available on Infrastructure eXCHANGE under this FOA posting (FOA 0002940). The SOPO, including the Milestone Table, **must not exceed five pages** when printed using standard 8.5 x 11 paper with 1" margins (top, bottom, left, and right) with font not smaller than 12 point (except in figures or tables, which may be 10-point font).

The SOPO is a work plan that lays out the tasks to complete the project objectives. The **SOPO is binding** and any changes must be made through a formal modification.



Save the SOPO in a single Microsoft Word file using the following convention for the title "ControlNumber_LeadOrganization_SOPO".





6. SF-424: Application for Federal Assistance (required)

File Format: PDF Page Limit: n/a

Applicants must complete the SF-424 Application for Federal Assistance, which is available under this FOA posting in **Infrastructure eXCHANGE.** Complete all required fields. The list of certifications and assurances in Field 21 can be found at

http://energy.gov/management/office-management/operational management/financial-assistance/financial-assistance-forms, under Certifications and Assurances.

Note: The dates and dollar amounts on the SF-424 are for the **complete project period** – not just the first project year.

View Burden Statement Expiration Date: 12/31/2022 Application for Federal Assistance SF-424 If Revision, select appropriate letter(s New Continuation Application Other (Specify) Sa. Federal Entity Identifier 5b. Federal Award Identifie State Use Only . State Application Identifier d Address Street2 County/Parisi State Province Country USA: UNITED STATES Organizational Unit Department Name . Name and contact information of person to be contacted on matters involving this application Viddle Nam

Save the SF-424 in a single PDF file using the following convention for the title "ControlNumber_LeadOrganization_App424".





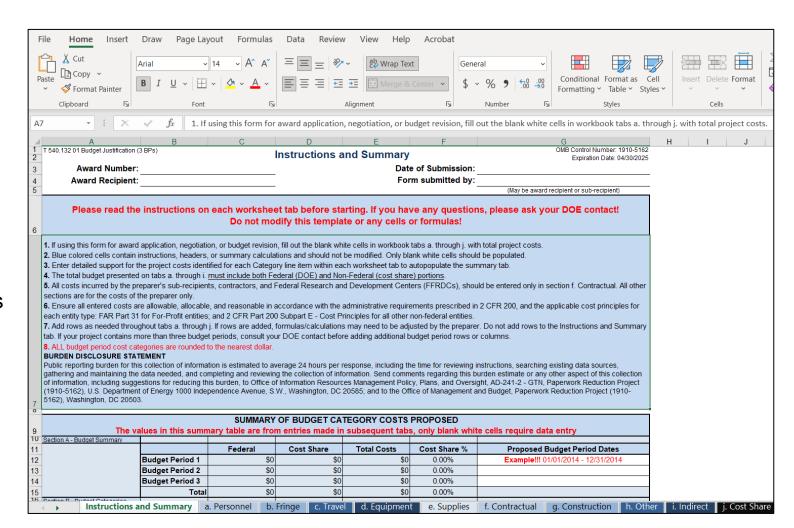
7. Budget Justification Workbook (required)

File Format: MS Excel Page Limit: n/a

Applicants must complete the Budget Justification Workbook, which is available on Infrastructure eXCHANGE at https://infrastructure-exchange.energy.gov/ under this FOA posting. Applicants must complete each tab of the Budget Justification Workbook for the project as a whole, including subrecipients and contractors.

Include costs associated with implementing BIL-specific requirements (e.g., Buy America requirements for infrastructure projects, Davis Bacon, Community Benefits Plan, reporting, oversight) and with required annual audits and incurred cost proposals in their proposed budget documents. Such costs may be reimbursed as a direct or indirect cost.

The "Instructions and Summary" included with the Budget Justification Workbook will auto-populate as the applicant enters information into the Workbook. Please read the "Instructions and Summary" tab provided within the Budget Justification Workbook.



Save the Budget Justification Workbook in a single Microsoft Excel file using the following convention for the title "ControlNumber_LeadOrganization_Budget_Justification".





8. Summary for Public Release (required)

File Format: PDF Page Limit: 1

Applicants must submit a **one-page summary** of their project that is suitable for dissemination to the public.

It should be a self-contained document that identifies the name of the applicant, the project director(s), the project title, the objectives of the project, a description of the project, including methods to be employed, the potential impact of the project (e.g., benefits, outcomes), major participants (for collaborative projects), and the project's commitments and goals described in the Community Benefits Plan. This document must not include any proprietary or sensitive business information as **DOE may make it available to the public after selections are made**.

The summary must not exceed 1 page when printed using standard 8.5" x 11" paper with 1" margins (top, bottom, left, and right) with font not smaller than 12 point.

Save the Summary for Public Release in a single PDF file using the following naming convention "ControlNumber_LeadOrganization_Summary".





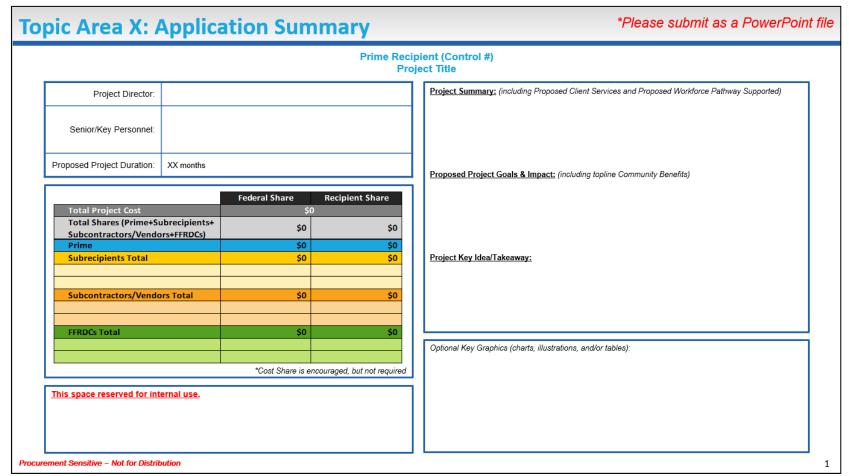
9. Summary Slide (required)

File Format: MS Power Point Page Limit: 1

Applicants must also provide a single slide summarizing the proposed project. The Summary Slide template must include the following information:

- A project summary;
- A summary of proposed client services;
- A description of the proposed workforce pathway supported, including certificates, credentials, and/or degrees offered;
- Proposed project goals;
- Any key graphics (illustrations, charts and/or tables);
- The project's key idea/takeaway;
- Topline community benefits;
- Project title, prime recipient, Project Director, and senior/key personnel information; and
- Requested DOE funds and proposed applicant cost share.

A fillable template is available on Infrastructure eXCHANGE at https://infrastructure-exchange.energy.gov/ under this FOA posting



Save the Summary Slide in a single Microsoft PowerPoint file using the following convention for the title "ControlNumber_LeadOrganization_Slide".

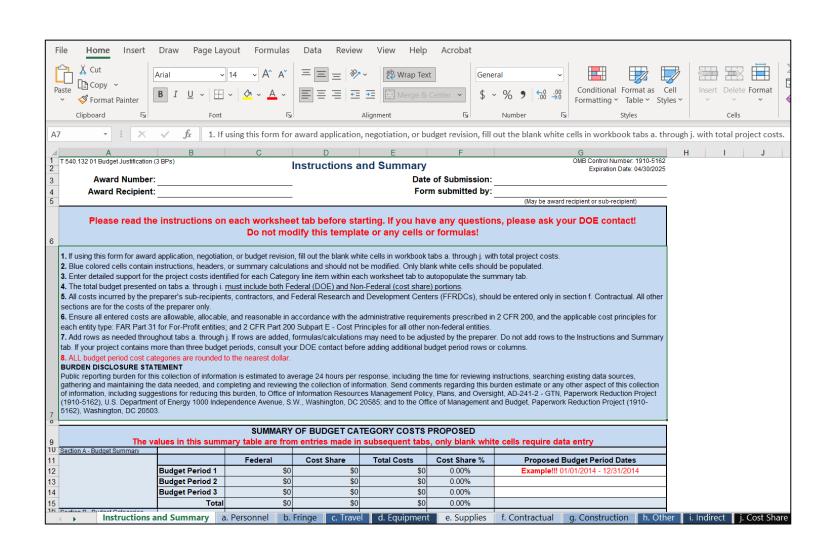




10. Subrecipient Budget Justification (if applicable) File Format: MS Excel Page Limit: n/a

File Format: MS Excel

Applicants must provide a **separate** budget justification for each subrecipient that is expected to perform work estimated to be more than \$250,000 or 25 percent of the total work effort (whichever is less). The budget justification must include the same justification information described in the "Budget Justification" section above.



Save each subrecipient budget justification in a Microsoft Excel file using the following convention for the title "ControlNumber LeadOrganization Subrecipient Budget Justification".





11. Budget for DOE/NNSA FFRDC (if applicable)

File Format: PDF Page Limit: n/a

If a DOE/NNSA FFRDC is to perform a portion of the work, the applicant must provide a DOE WP in accordance with the requirements in DOE Order 412.1A, Work Authorization System, Attachment 2, available at:

https://www.directives.doe.gov/directives-documents/400-series/0412.1-BOrder-a-chg1-AdmChg

DOE O 412.1A Chg 1 05-21-2014

ADMINISTRATIVE CHANGE TO DOE O 412.1A, Work Authorization System

Locations of Changes:

Page	Paragraph	Changed	То
1	Header	This directive was reviewed and certified as current and necessary by Susan J. Grant, Director, Office of Management, Budget and Evaluation/Chief Financial Officer, 4-21-05.	Obsolete
1	3a	(See Attachment 1 for a complete list of Primary DOE Organizations.) This Order automatically applies to Primary DOE Organizations created after it is issued.	(See current listing at https://www.directives.doe.go v/references/DepartmentalEle ments)
1	Footer	Office of Procurement and Assistance Management	Office of Acquisition and Project Management
3	4.d(3)	"DOE O 241.1A, Scientific and Technical Information Management, dated 4-9-01;"	"DOE O 241.1B, Scientific Technical Information Management dated 12-13- 10;"
5	5.c.(6)	to the field promptly after submission of the AFP	to the field promptly with submission of the AFP
6	5.e.	Office of Management, Budget and Evaluation.	Office of the Chief Financial Officer.
n/a*	6.	DEFINITIONS.	Delete entire paragraph. Link no longer exists and the paragraph is optional
7	7.	7. REFERENCES	6. REFERENCES
7	d.	DOE O 135.1, Budget Execution Funds Distribution and Control, dated 9-30-95, describes DOE systems. policies, and	DOE O 135.1A, Budget Execution Funds Distribution and Control, dated 1-9-06, describes DOE systems.

Save the WP in a single PDF file using the following convention for the title "ControlNumber_LeadOrganization_WP".





12. Authorization for non-DOE/NNSA or DOE/NNSA FFRDCs (if applicable)

File Format: PDF Page Limit: n/a

The federal agency sponsoring the FFRDC must authorize in writing the use of the FFRDC on the proposed project and this authorization must be submitted with the application. The use of a FFRDC must be consistent with the contractor's authority under its award.





13. SF-LLL: Disclosure of Lobbying Activities (required)

File Format: PDF Page Limit: n/a

Recipients and subrecipients may not use any federal funds to influence or attempt to influence, directly or indirectly, congressional action on any legislative or appropriation matters.

Recipients and subrecipients are required to complete and submit SF-LLL, "Disclosure of Lobbying Activities" a template can be found under this FOA posting or https://www.grants.gov/web/grants/forms/sf-424-individual-family.html to ensure that non-federal funds have not been paid and will not be paid to any person for influencing or attempting to influence any of the following in connection with the application:

- An officer or employee of any federal agency;
- A member of Congress;
- An officer or employee of Congress; or
- An employee of a member of Congress.

6. * Federal Department/Agency 7. * Federal Program Name/Description

Save the SF-LLL in a single PDF file using the following convention for the title "ControlNumber_LeadOrganization_SF-LLL".





14. Waiver Requests (if applicable)

File Format: PDF Page Limit: n/a

Foreign Entity Participation

For projects selected under this FOA, all recipients and subrecipients **must qualify as domestic entities**. See Section III. To request a waiver of this requirement, the applicant must submit an explicit waiver request in the Full Application. Appendix C lists the information that must be included in a waiver request.

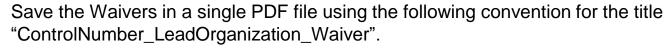
Foreign Work Waiver Request

As set forth in Section IV.I.iii., all work for projects selected under this FOA must be performed in the United States. To request a waiver of this requirement, the applicant must submit an explicit waiver request in the Full Application. Appendix C lists the information that must be included in a foreign work waiver request.

APPENDIX C – WAIVER REQUESTS FOR: 1. FOREIGN ENTITY PARTICIPATION; AND 2. FOREIGN WORK.

(Currently found on pages 105-107 of the FOA document) includes:

- 1. Waiver for Foreign Entity Participation
 - Waiver Criteria
 - Content for Waiver Request
- 2. Waiver for Performance of Work in the United States (Foreign Work Waiver)
 - DOE may require additional information before considering the waiver request.
 - DOE's decision concerning a waiver request is not appealable.







15. Current and Pending Support (if applicable, 1/3)

File Format: PDF Page Limit: n/a

The principal investigator or lead project manager and all senior/key personnel at the applicant and subrecipient level must provide a list of all sponsored activities, awards, and appointments, whether paid or unpaid; provided as a gift with terms or conditions or provided as a gift without terms or conditions; full-time, part-time, or voluntary; faculty, visiting, adjunct, or honorary; cash or in-kind; foreign or domestic; governmental or private-sector; directly supporting the individual's research or indirectly supporting the individual by supporting students, research staff, space, equipment, or other research expenses. All connections with foreign government-sponsored talent recruitment programs must be identified in current and pending support.

For every activity, list the following items:

- The sponsor of the activity or the source of funding;
- The award or other identifying number;
- The title of the award or activity. If the title of the award or activity is not descriptive, add a brief description of the research being performed that would identify any overlaps or synergies with the proposed research;
- The total cost or value of the award or activity, including direct and indirect costs and cost share. For pending proposals, provide the total amount of requested funding;
- The award period (start date end date); and
- The person-months of effort per year being dedicated to the award or activity.

To identify overlap, duplication of effort, or synergistic efforts, append a description of the other award or activity to the current and pending support. Details of any obligations, contractual or otherwise, to any program, entity, or organization sponsored by a foreign government must be provided on request to either the applicant institution or DOE. Supporting documents of any identified source of support must be provided to DOE on request, including certified translations of any document.

Applicants may use this template: https://www.nsf.gov/bfa/dias/policy/nsfapprovedformats/cps.pdf





Current and Pending Support (2/3)

Pls and senior/key personnel must provide a separate disclosure statement listing the required information above regarding current and pending support. Each individual must sign and date their respective disclosure statement and include the following certification statement:

I, [Full Name and Title], certify to the best of my knowledge and belief that the information contained in this Current and Pending Support Disclosure Statement is true, complete, and accurate. 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 (1) the statements and representations made herein are material to DOE's funding decision, and (2) I have a responsibility to update the disclosures during the period of performance of the award should circumstances change which impact the responses provided above.

The information may be provided in the format approved by the National Science Foundation (NSF), which may be generated by the Science Experts Network Curriculum Vita (SciENcv), a cooperative venture maintained at https://www.ncbi.nlm.nih.gov/sciencv/, and is also available at https://www.nsf.gov/bfa/dias/policy/nsfapprovedformats/cps.pdf.

Save the Current and Pending Support in a single PDF file using the following convention for the title "ControlNumber_LeadOrganization_CPS".





Current and Pending Support (3/3)

*Name:		
ORCID ID (Optional):		
Position Title :		
Organization:		
*Location:		
Certification:		
information is current, accurated information related to current as defined in 42 U.S.C. prosecution and liability pursu U.S.C. §§3729-3733 and 3802.	certification on behalf of themselves, the, and complete. This includes, b, pending, and other support (both §§6605. Misrepresentations and/or omisant to, but not limited to, 18 U.S.C. §§	out is not limited to, foreign and domestic) ssions may be subject to
Signature (Please type out full name):	r	Date:
	§ 6605, Current and Pending (Other)	Support (A) means all
resources made available, or of the individual's research ar resource is foreign or domest applying for a research and de resource has monetary value; commitment of time and directly the provision of office or labora	§ 6605, Current and Pending (Other) expected to be made available, to d development efforts, regardless of (i) c; (ii) whether the resource is made a velopment award or directly to the indir and (B) includes in-kind contribution supporting the individual's research and c tory space, equipment, supplies, employed readily ascertainable, reasonable estimate	an individual in support whether the source of the vailable through the entity ridual; or (iii) whether the information requiring a development efforts, such as sees, or students. If the time

1.*Project/Proposal Title	e :		
*Status of Support :	Current Pendin	g	
Proposal/Award Numb	er (if available):		
*Source of Support:			
*Primary Place of Perfo	ormance :		
*Project/Proposal Start	Date (MM/YYYY) :		
*Project/Proposal End I	Date (MM/YYYY):		
*Total Award Amount			
	artial Person-Months) Pe		-
	is not readily ascertainal		
*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
2.		5.	
3.			
*Overall Objectives :			
*Statement of			
Potential Overlap :			

-Kind Contribution Info	ormation				_
10.*Status of Support : (*In-Kind Contribution In		Pendi			
*In-Kind Contribution I			-		
Source of Support :					
Summary of In-Kind Co Information : *Person-Month(s)(or Par		onths) Per Y	ear Associated with	the In-Kind Contribution	on
Information					
If the time commitment					_
*Year (YYYY)	*Person Mon	ths (##.##)	Year (YYYY) 4.	Person Months (##.	.##)
2.		-	5.		\dashv
3.			J.		_
*U.S. Dollar Value of In-	-Kind Contrib	ution Inform	nation: \$		
*Overall Objectives :					
*Statement of Potential Overlap :					
					_





16. Locations of Work (required)

File Format: PDF Page Limit: n/a

The applicant must complete the supplied template by listing the city, state, and zip code + 4 for each location where project work will be performed by the prime recipient or subrecipient(s).





17. Transparency of Foreign Connections (if applicable)

File Format: PDF Page Limit: n/a

Applicants must identify the following as they relate to the proposed recipient and subrecipients:

- 1. Entity name, website address and mailing address;
- 2. The identity of all owners, principal investigators, project managers, and senior/key personnel who are a party to any *Foreign Government-Sponsored Talent Recruitment Program* of a foreign country of risk (i.e., China, Iran, North Korea, and Russia);
- 3. The existence of any joint venture or subsidiary that is based in, funded by, or has a foreign affiliation with any foreign country of risk, including the People's Republic of China;
- 4. Any current or pending contractual or financial obligation or other agreement specific to a business arrangement, or joint venture-like arrangement with an enterprise owned by a foreign state or any foreign entity;
- 5. Percentage, if any, that the proposed recipient or subrecipient has foreign ownership or control;
- 6. Percentage, if any, that the proposed recipient or subrecipient is wholly or partially owned by an entity in a foreign country of risk;
- 7. The percentage, if any, of venture capital or institutional investment by an entity that has a general partner or individual holding a leadership role in such entity who has a foreign affiliation with any foreign country of risk;
- 8. Any technology licensing or intellectual property sales to a foreign country of risk, during the 5-year period preceding submission of the proposal;
- 9. Any foreign business entity, offshore entity, or entity outside the United States related to the proposed recipient or subrecipient;
- 10. Complete list of all directors (and board observers), including their full name, citizenship and shareholder affiliation, date of appointment, duration of term, as well as a description of observer rights as applicable;
- 11. Complete capitalization table for your entity, including all equity interests (including LLC and partnership interests, as well as derivative securities). Include both the number of shares issued to each equity holder, as well as the percentage of that series and all equity on a fully diluted basis. Identify the principal place of incorporation (or organization) for each equity holder. If the equity holder is a natural person, identify the citizenship(s). If the recipient or subrecipient is a publicly traded company, provide the above information for shareholders with an interest greater than five percent;
- 12. A summary table identifying all rounds of financing, the purchase dates, the investors for each round, and all the associated governance and information rights obtained by investors during each round of financing; and
- 13. An organization chart to illustrate the relationship between your entity and the immediate parent, ultimate parent, and any intermediate parent, as well as any subsidiary or affiliates. Identify where each entity is incorporated.

DOE reserves the right to request additional or clarifying information based on the information submitted.

Save the Transparency of Foreign Connections information in a single PDF file using the following convention for the title "ControlNumber_LeadOrganization_TFC."





18. Potentially Duplicative Funding Notice (if applicable)

File Format: PDF Page Limit: n/a

If the applicant or project team member has other active awards of federal funds, the applicant must determine whether the activities of those awards potentially overlap with the activities set forth in its application to this FOA. If there is a potential overlap, the applicant must notify DOE in writing of the potential overlap and state how it will ensure any project funds (i.e., recipient cost share and federal funds) will not be used for identical cost items under multiple awards.

Likewise, for projects that receive funding under this FOA, if a recipient or project team member receives any other award of federal funds for activities that potentially overlap with the activities funded under the DOE award, the recipient must promptly notify DOE in writing of the potential overlap and state whether project funds from any of those other federal awards have been, are being, or are to be used (in whole or in part) for one or more of the identical cost items under the DOE award.

If there are identical cost items, the recipient must promptly notify the DOE Grants Officer in writing of the potential duplication and eliminate any inappropriate duplication of funding.

Save the Potentially Duplicative Funding Notice in a single PDF file using the following convention for the title "ControlNumber_LeadOrganization_PDFN."





Questions

Questions about this FOA? Email IACProgram@doe.gov and find answers at Infrastructure eXCHANGE

Problems with Infrastructure Exchange?
Email InfrastructureExchangeSupport@hq.doe.gov
Include FOA name and number in subject line

In addition to the 4/18/23 Webinar, this Webinar will be made available on eXCHANGE at: https://infrastructure-exchange.energy.gov/Default.aspx#Foald7ab20cf6-b723-402a-ab29-12f58f41ca8d

Remember: Please do <u>NOT</u> wait until the last minute to submit your application!









