



U.S. DEPARTMENT OF
ENERGY

Office of
Technology
Transitions

**Technology Commercialization Fund
Fiscal Year 2021 Solicitation
September 10, 2020**

**Zack Baize
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Office of Technology Transitions**

- Background and Description of the Solicitation
- Eligibility for Award
- Award Information & Administration
- Proposal Requirements and Review Information
- Proposal Submission & Format
- Other Information

EPAct 2005 Section 1001(e) (as amended) Energy Technology Commercialization Fund

“The Secretary shall establish an Energy Technology Commercialization Fund, using 0.9 percent of the amount made available to the Department for applied energy research, development, demonstration, and commercial application for each fiscal year based on future planned activities and the amount of the appropriations for the fiscal year, to be used to provide matching funds with private partners to promote promising energy technologies for commercial purposes.”

Public Law 109–58
109th Congress

An Act

To ensure jobs for our future with secure, affordable, and reliable energy.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) SHORT TITLE.—This Act may be cited as the “Energy Policy Act of 2005”.

(b) TABLE OF CONTENTS.—The table of contents for this Act is as follows:

Sec. 1. Short title; table of contents.

TITLE I—ENERGY EFFICIENCY

Subtitle A—Federal Programs

- Sec. 101. Energy and water saving measures in congressional buildings.
- Sec. 102. Energy management requirements.
- Sec. 103. Energy use measurement and accountability.
- Sec. 104. Procurement of energy efficient products.
- Sec. 105. Energy savings performance contracts.
- Sec. 106. Voluntary commitments to reduce industrial energy intensity.
- Sec. 107. Advanced Building Efficiency Toolset.
- Sec. 108. Increased use of recovered mineral component in federally funded projects involving procurement of cement or concrete.
- Sec. 109. Federal building performance standards.
- Sec. 110. Daylight savings.
- Sec. 111. Enhancing energy efficiency in management of Federal lands.

Subtitle B—Energy Assistance and State Programs

- Sec. 121. Low-income home energy assistance program.
- Sec. 122. Weatherization assistance.
- Sec. 123. State energy programs.
- Sec. 124. Energy efficient appliance rebate programs.
- Sec. 125. Energy efficient public buildings.
- Sec. 126. Low income community energy efficiency pilot program.
- Sec. 127. State Technologies Advancement Collaborative.
- Sec. 128. State building energy efficiency codes incentives.

Subtitle C—Energy Efficient Products

- Sec. 131. Energy Star program.
- Sec. 132. HVAC maintenance consumer education program.
- Sec. 133. Public energy education program.
- Sec. 134. Energy efficiency public information initiative.
- Sec. 135. Energy conservation standards for additional products.
- Sec. 136. Energy conservation standards for commercial equipment.
- Sec. 137. Energy labeling.
- Sec. 138. Intermittent escalator study.
- Sec. 139. Energy efficient electric and natural gas utilities study.
- Sec. 140. Energy efficiency pilot program.
- Sec. 141. Report on failure to comply with deadlines for new or revised energy conservation standards.

Subtitle D—Public Housing

- Sec. 151. Public housing capital fund.

Aug. 8, 2005
(H.R. 6)

Energy Policy Act
of 2005.
42 USC 15801
note.

TCF Goals

- Perform technology maturation with the intent of attracting a private partner that is willing to support the technology's commercialization.
- Support cooperative development of technology with a private partner for a specific commercial application.



Key Gaps to Address

- Technology maturation resource gap.
- Focused outreach and industry engagement to commercialize high-potential energy technologies.

Key Dates

Solicitation Issue Date	September 10, 2020
Pre-Recorded Informational Webinar Available	September 10, 2020
Deadline for Mandatory Proposal Eligibility Declarations	October 08, 2020 5:00 p.m. (ET)
Anticipated Notification of Full Proposal Eligibility	November 3, 2020
Deadline for Full Proposals	December 15, 2020 5:00 p.m. (ET)
Anticipated Review Comments	Late March 2021
Optional Response to Review Comments	Three (3) Business Days Later
Expected Date for Selection Notifications	Late Spring 2021



Means of Proposal Eligibility Document Submission	Email completed form to TCF@hq.doe.gov and TCFsubmissions@inl.gov .
Means of Proposal Submission	https://proposalsott.inl.gov OTT will not review or consider proposals submitted through other means.
Total Amount to be Provided	DOE expects to make available approximately \$23.1M - \$28.5M million of Federal funding for award under this Solicitation, subject to the availability of appropriated funds. DOE may issue one, multiple, or no awards.
Period of Performance	Topic 1: 6-18 months Topic 2: 12-36 months Awarded projects in both topics are required to report metrics and participate in OTT's TCF Program evaluation for up to 5 years from award date.
Eligible Entities	U.S. Department of Energy National Laboratories, Plants, and Sites
TCF Matching Funds/ Non-Federal Cost Requirement	Projects are required to provide matching non-Federal funds at a level of 50% of the total project cost.
Submission of Multiple Proposals	There is no limit on the number of proposals a National Laboratory, Plant, or Site may submit.
Proposal Forms	The proposal details are contained in the Solicitation. Page limits: 6 page limit for Topic 1 proposals 12 pages for Topic 2 proposals
Questions	TCF program rules and proposal process: TCF@hq.doe.gov Using the online application portal: TCFsubmissions@inl.gov

Lab Partnering Service Check Box

- Applicants will be required to indicate whether the Principal Investigator is now or has in the past been enrolled in DOE's Lab Partnering Service (<https://www.labpartnering.org/>). Enrollment in DOE's Lab Partnering Service gives neither an advantage nor a disadvantage to TCF applicants. DOE is simply interested to know whether applicants are or have been Lab Partnering Service enrollees. This is similar to the existing Energy i-Corp check box.

Partnership Agreements

- The type of partner agreement is at the discretion of the DOE facility

Project Administration

- Reporting Frequency of Selected TFC Projects
 - TCF projects will no longer be required to report to TCF/PICs quarterly.
 - PICs reporting will be required at the beginning and end of the project.
 - Information may be requested at other times as needed.
 - This does not impact the reporting requirements of the Program Office Funding the Project.

- Applicants will email FY 2021 Proposal Eligibility Declarations to TCF@hq.doe.gov and TCFsubmissions@inl.gov.
- A Proposal Eligibility Declaration template form is available at <https://www.labpartnering.org/TCF/About>
- You will receive a confirmation email within one business day of the TCF receiving your Proposal Eligibility Documents.

The TCF focuses on commercializing promising energy technologies across the entire range of DOE's portfolio of applied energy programs, and in two Topic areas

- Proposal Eligibility Declarations are subject to a go-no-go eligibility review, which includes a mission area relevance screen
- Eligible Full Proposals are subject to an independent merit review to evaluate the technical and commercial viability of the proposed project
- OTT manages the review process in collaboration with
 - DOE Program Offices — input at several stages, including after the Independent Merit Review
 - Idaho National Lab, which is facilitating the Proposal and Review Operations Platforms (*PROPs*)
 - ORISE – the Oak Ridge Institute for Science Education, which identifies and recruits independent merit reviewers for Full Proposals

Topic 1:

- Technologies developed at DOE facilities that have commercial promise
- Have the potential to attract a private partner

The target funding for Topic 1 is \$100K-\$250K

The target period of performance for a Topic 1 award is 6-18 months

Topic 2:

- Technologies for which a commercial partner has already been identified
 - Willing to execute a technology partnership agreement (i.e., a CRADA)
- Supports cooperative development of a commercial application for technology developed at DOE facilities
- Applicants will have undertaken some form of evaluation to determine if the technology is viable for commercialization, such as
 - IP mapping
 - Participation in the Energy I-Corps program
 - Other activities

The target funding for Topic 2 is \$250K-\$1.5M

The target period of performance for Topic 2 is 12-36 months.



The scope of a project should allow it to meet TCF's goals for the type of project it is—i.e., Topic 1 or Topic 2. The activities described below correlate to the independent merit review criteria. All projects, whether proposed as Topic 1 or Topic 2, need to address the four areas described here. Depending on the Topic area, the breadth and level of detail will vary. In all cases, proposals must address the following items to the degree of specificity appropriate to the chosen topic area.

- 1. Commercial Impact**
- 2. Technology Maturity**
- 3. Project Plan**
- 4. Project Team and Resources**

1. Commercial Impact

Both Topic 1 and Topic 2 proposals need to address the proposed technology's potential market impacts if it is commercialized. Topic 1 projects are intended to focus on maturing a technology to the point that it can attract and secure a private partner, or on further developing the technology and existing partnership for a larger Topic 2 project. Topic 1 proposals need to provide evidence that the technology has potential market impact. Topic 2 projects are intended to focus primarily on the commercialization of the technology in concert with a private partner. Therefore, a Topic 2 proposal should contain more expansive information about the commercial impact of the technology. There must be a clear explanation of the current or anticipated market for the technology. This should include a description of the significant market need that the project addresses. The applicant should also specify whether the proposed technology could achieve market penetration independent of complementary technologies, processes, or other requirements. If other factors, such as policy or regulations, are required for the technology to achieve market penetration, the applicant should identify them and discuss the circumstances.

2. Technology Maturation

Proposals for both Topic 1 and Topic 2 need to address what the project intends to accomplish in terms of advancing the maturity of its technology. Topic 1 projects are intended to focus on whichever advances are necessary and appropriate to attract and secure a private partner—or in the cases of Topic 1 projects that already have a partner, on developing both the technology and the relationship to take next steps, such as those described for Topic 2 proposals. Topic 2 projects may require that the technology be further matured or demonstrated at a larger scale. Topic 2 proposals should describe which activities need to be undertaken to achieve the commercialization goals of the project. There must be a clear explanation of the current state of the technology, as well as the anticipated state of the technology at the end of the project. To the degree they can be anticipated, the applicant should explain the technical challenges and unanswered technical questions that must be addressed to reach the desired maturity of the technology. There should be an explanation of any complementary technology(ies) necessary for the proposed technology to function and to have relevance in the market.

3. Project Plan

Both Topic 1 and Topic 2 proposals need to include a project plan, which should focus on the project's objectives. Depending on the topic area and the specific project objectives, the plan should focus on tasks and activities to accomplish those objectives. There must be a clear explanation of the goals and outcomes of the proposed project, and a viable approach to address the technical and commercialization challenges of bringing the technology to the market. Tasks should be clearly linked to performance metrics and deliverables. There must also be a delineation of risks or uncertainties—e.g., to the technology itself, to the market—and a plan to manage or retire them.

4. Project Team and Resources

There must be a clear articulation that the project team and resources are qualified and capable of successfully completing the project. This includes both the Facility and partner teams. Proposals must clearly define team members' roles and responsibilities. There should be evidence that the necessary personnel, facilities, and equipment are available and committed to the project.

Only U.S. Department of Energy National Laboratories, and NNSA Plants, and Sites (DOE Facilities) are eligible to apply for TCF funding

- Facilities may bring partners into a proposal but **lab is the sole awardee**
- Facilities are eligible for multiple awards
- Applicants must be employees of a DOE Facility, and must use their Facility email addresses to submit TCF PEDS and Full Proposals.

- Ames Laboratory
- Argonne National Laboratory
- Brookhaven National Laboratory
- Fermi National Accelerator Laboratory
- Idaho National Laboratory
- Kansas City National Security Campus
- Lawrence Livermore National Laboratory
- Lawrence Berkeley National Laboratory
- Los Alamos National Laboratory
- National Energy Technology Laboratory
- National Renewable Energy Laboratory
- Nevada National Security Site
- Oak Ridge National Laboratory
- Pacific Northwest National Laboratory
- Pantex Plant
- Princeton Plasma Physics Laboratory
- Sandia National Laboratories
- Savannah River National Laboratory
- SLAC National Accelerator Laboratory
- Thomas Jefferson National Accelerator Facility
- Y-12 National Security Complex

Proposals must pursue a project in either

- Topic 1
- Topic 2

Topic 1

Eligible projects for Topic 1 must involve currently existing DOE Facility technology or IP that demonstrates evidence of commercial potential—with or without a private partner. Evidence of commercial potential includes technology having demonstrated analytical and experimental proof of concept in a laboratory environment. For example, experiments or modeling and simulation have validated performance prediction of the technology's capability. Design techniques have been identified or developed. Scaling studies have been initiated. Projects funded under Topic 1 have a performance period of 6-18 months. The target Topic 1 award amount is \$100,000-\$250,000.

Topic 2

Eligible projects for Topic 2 must involve currently existing laboratory technology or IP, and the laboratory must have a non-Federal partner with a defined commercial application for the technology. Whenever possible, partner(s) should be identified in the Proposal Eligibility Declaration. Partner(s) must be identified in the full proposal. A CRADA or other approved partnership agreement does not have to be in place to be eligible for award. If funds are allocated before a CRADA or other approved agreement is in place, work may not begin until one is executed. If a CRADA or other approved agreement is not executed within 6 months of DOE's obligating the funds to the DOE Facility, the Department may cancel the award. A project or work scope under an existing CRADA or other partnership agreement is not eligible for an award under the TCF. Projects funded under Topic 2 have a performance period of 12-36 months. The target Topic 2 award amount is \$250,000 - \$1,500,000.

Additional Funding Eligibility Considerations

Technologies previously funded as Topic 1 projects are eligible to submit Topic 2 proposals under the same field of use or market segment as the original TCF project. After completing Topic 1 and Topic 2 projects under a single field of use or market segment, a technology is eligible to receive funding again as either a Topic 1 or a Topic 2, provided the new project articulates a different field of use or market segment, and the earlier TCF project(s) meet the following conditions:

- The project (scope of work) is complete by the Full Proposal deadline.
- The project has complied with all interim reporting requirements (a final report is due three months from the completion of the scope of work, but is not a precursor for selection)
 - In addition to the Funding Program Office requirements, TCF Project recipients will be required to upload reporting to the Project Information Collection System (PICS) at the beginning and end of the project and on an as-needed basis when requested by DOE's Office of Technology Transitions (OTT).
- The new funding request meets the Solicitation's requirements and advances the technology toward commercialization.

Projects must align with DOE Program Offices and Technology Areas (Program Office Appropriations Control Accounts)

Cybersecurity, Energy Security, and Emergency Response (CESER)

- Cybersecurity for Energy Delivery Systems

Electricity and Energy Reliability (OE)

- Transmission Reliability and Resilience
- Resilient Distribution Systems
- Energy Storage (Grid Scale)
- Transformer Resilience and Advanced Components

Energy Efficiency & Renewable Energy (EE)

- Advanced Manufacturing
- Bioenergy Technologies
- Building Technologies
- Geothermal Technologies
- Hydrogen and Fuel Cell Technologies
- Solar Energy Technologies
- Vehicle Technologies
- Water Power Technologies
- Wind Energy Technologies

Fossil Energy (FE)

- Advanced Energy Systems
- Cross-cutting Research
- Carbon Capture
- CO₂ Utilization
- Carbon Storage
- Natural Gas Technologies
- Unconventional Fossil Energy Technologies from Petroleum – Oil Technologies

Nuclear Energy (NE)

- Reactor Concepts Research, Development and Demonstration
- Fuel Cycle Research and Development
- Used Nuclear Fuel Disposition (UNFD) R&D
- Nuclear Energy Enabling Technologies

Topic 1 projects may have a partner.

Topic 2 projects must have a partner.

Partners must be

- Non-Federal entities, including
 - Private companies
 - State or local governments, or entities created by them
 - Universities
 - Non-profit organizations

Partner organizations must agree to engage in activities that focus on commercializing or deploying technologies in the marketplace.

For full proposals in both Topic 1 and 2, OTT requires a letter of commitment from all partners with whom the applicant expects to sign a partnership agreement.

Matching Funds

Non-federal matching funds are required for all projects

- 50% of total project costs

If a DOE facility provides matching funds, it must be a cash contribution

If a private partner provides matching funds, it may be a cash or in-kind contribution

- Applicants should ensure that in-kind contributions meet DOE's requirements. For more information and examples, please see Appendix B of the FY21 Solicitation.

Type of Award Instrument

- TCF awards will be documented and funded through the existing work authorization and funds management processes of the DOE Program Office providing the funding. DOE Facilities will be required to track Federal funds in accordance with normal Departmental processes. DOE Facilities will also be required to track non-Federal funds in accordance with established DOE Facility accounting processes.

Project Reporting

- In addition to the Funding Program Office requirements, TCF Project recipients will be required to upload reporting to the Project Information Collection System (PICS) at the beginning and end of the project and on an as-needed basis when requested by DOE's Office of Technology Transitions (OTT). This is separate from any reporting required by the funding Program office. OTT will provide initial training on the PIC System for new Project Recipients.

Estimated Funding

DOE anticipates that approximately \$23.1 - \$28.5 million will be available for the TCF in FY21. Amounts available are dependent on FY 2021 Congressional appropriations. DOE may issue one, multiple, or no awards.

Number of Selections: The number of selections will be based on the number of meritorious applications, and the availability of appropriated funds in each DOE Program Office or technology area.

Funding Amount per Selection:

Topic 1 Projects - \$100,000-\$250,000

Topic 2 Projects - \$250,000-\$1,500,000

DOE reserves the right to fund, in whole or in part, any, all, or none of the proposals submitted in response to this Solicitation.

Participating DOE Program Office	Estimated FY21 Funding Range
Energy Efficiency and Renewable Energy (EERE)	\$15M - \$17.5M
Nuclear Energy (NE)	\$5.5M – \$6.7M
Fossil Energy (FE)	\$1.1M - \$2.5M
Electricity Delivery and Energy Reliability (OE)	\$1.1M - \$1.3M
Cybersecurity, Energy Security, and Emergency Response (CESER)	\$0.2M - \$0.4M
Total TCF	\$23.1M - \$28.5M

Crosscutting Awards and Mission Area Relevance

DOE Facilities may submit proposals they view as having crosscutting applicability or benefit. In the mandatory Proposal Eligibility Declaration, applicants may identify up to two (2) Technology Areas per project, and must provide a short explanation that articulates the technology's mission area relevance for each area. Applicants should assume that these are reviewed separately, so they should write independent and coherent justifications (i.e., they should avoid things like "continued below," "see above," and "furthermore, ..."). DOE is under no obligation to accept an applicant's determination of crosscutting applicability. DOE reserves the right to make final determinations about which Program Office(s) will bear what share of the Federal costs for crosscutting awards.

Multiple Awards

DOE Facilities are eligible for more than one award. Awards are made on a per proposal basis. Each proposal must define a single project. Individual proposals are not eligible for multiple awards.

OTT will inform the Facility's Technology Transfer Offices as it moves through some phases of the selection cycle—after the deadline for Full Proposals. For example, OTT will communicate that the Independent Merit Reviews have begun and concluded (which will signal that the three-day review response window will open shortly thereafter); that the results of the Independent Merit Review are with the participating Program Offices for their input.

The first decision notification follows the Proposal Eligibility Declaration review. This is a go-no-go decision that determines whether or not DOE will accept a Full Proposal for the corresponding Proposal Eligibility Declaration.

Following the conclusion of Independent Merit Reviews, applicants will receive review comments. Applicants will have an opportunity to provide an optional and brief response to review comments. OTT will forward these applicant responses to the relevant DOE Program Office(s) as well as to the members of the Merit Review Committee for use at their meeting. Applicant comments do not change the score or the rankings, but do provide input to the Program Offices and Selection Committees who make the selection recommendations. OTT anticipates emailing independent merit review comments to PIs and each DOE Facility Tech Transfer Office no later than late March 2021.

Notification of DOE's TCF selection decisions follows the conclusion of the evaluation and selection process. DOE's decision to select a project for award is not an authorization to begin performance. Selected projects are required to finalize the Scope of Work (SOW)/Work Plan with the funding Program Office(s) prior to work authorization and release of funds. OTT and/or the funding DOE Program Office(s) reserve the right to request additional or clarifying information before proceeding to the SOW finalization stage.

All of DOE's decisions are final when communicated to applicants. OTT notifies each proposal's points of contact in writing of its decisions and provides a summary to each DOE Facility's Tech Transfer Office.

Proposal Eligibility Declarations

- Are mandatory.
- Will only be accepted by email to TCF@hq.doe.gov **and** TCFsubmissions@inl.gov.
- Must be sent from a DOE Facility email address.
- Are due at **5:00 p.m. ET on October 8, 2020**.
- ***Email submissions timestamped after 5:00 p.m. ET on October 8, 2020 will not be accepted.***

Proposal Eligibility Declarations

- Proposal Eligibility Declarations are mandatory
- Proposal Eligibility Declarations consist of a form that is available for download at <https://www.labpartnering.org/TCF/About>
- 1,000 character (or less) description of the technology's relevance to the selected primary area and optional secondary area, if applicable
 - 2,000 character Brief Overview
 - 5,000 character (including spaces and punctuation) Proposal Eligibility Declaration Mission Narrative
- Are submitted by email to: TCF@hq.doe.gov and TCFsubmissions@inl.gov
- The deadline is **5:00 p.m. ET on October 8, 2020. Proposal Eligibility Submittals with an email timestamp later than 5:00 p.m. on October 8, 2020 will not be accepted.**
- The applicant's points of contact should receive an email acknowledging receipt of the proposal within one business day
- Please contact TCFSubmissions@inl.gov if a confirmation email is not received

Initial eligibility screen

1. That the applicant is eligible under this solicitation, and was submitted from a DOE Facility email address
2. That the Proposal Eligibility Declaration is complete and contains all the required information
3. That the Proposal Eligibility Declaration describes a project responsive to this Solicitation's objectives
4. That the Proposal Eligibility Declaration demonstrates and accurately articulates mission area relevance to the applicant-selected Program Office(s) and Technology Area(s).

<h2>FY 2020 Solicitation</h2>	<h2>FY 21 Solicitation</h2>
<p>All resources (e.g. solicitation, Q/A, supplemental documents) are available through PROPS</p>	<p>Resources (e.g. solicitation, Q/A, PED template) are available at https://www.labpartnering.org/TCF/About</p>
<p>Applicants submit their Proposal Eligibility Documents (PED) by submitting an online form in PROPS</p>	<p>Applicants submit their Proposal Eligibility Documents (PED) by completing a template PDF (available on line) and emailing it to the TCF Inbox and the INL TCF submissions email address</p>
<p>An automatic PED received confirmation is generated by PROPS</p>	<p>A basic confirmation email is sent by the TCF Team from the respective TCF email address</p>
<p>Applicants may make changes prior to the PED due date in PROPS and can request the TCF team to make some PED changes after the due date until the December 1 cutoff.</p>	<p>Applicants may make changes prior to the PED due date by requesting the return of the PED from the TCF team. TCF team to make some PED changes after the due date until the December 1 cutoff. When requested by the applicant</p>

Download the form at
<https://www.labpartnering.org/TCF/About>

Completed forms
 must be submitted
 no later than 5 p.m.
 Eastern Time on
 October 8, 2020

Email completed form to:
 TCF@hq.doe.gov and
 TCFsubmissions@inl.gov

Fiscal Year 2021 Office of Technology Transitions (OTT)
 Technology Commercialization Fund (TCF)
 Proposal Eligibility Declaration (PED)

PLEASE COMPLETE ALL PAGES AND SUBMIT THE DIGITALLY SIGNED VERSION TO
 TCF@HQ.DOE.GOV AND TCFSUBMISSIONS@INL.GOV

PROJECT ADMINISTRATIVE DETAIL AND SUMMARY

PROJECT INFORMATION

Project Title (Required)	
Period of Performance (Required) Topic 1: 6 – 18 months Topic 2: 12 – 36 months	
Brief Overview (Required). Character Limit: 2,000, including spaces & punctuation	

Principal Investigator Information (Required)

Salutation	First Name	Last Name
Phone Number	Email Address (Use of DOE facility email required)	
DOE Lead Facility (Required)		

Delegate Information

Salutation	First Name	Last Name
Phone Number	Email Address (Use of DOE Facility Email Required)	

Topic (Required)

Topic 1 or Topic 2? (see solicitation for description)	
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Fiscal Year 2021 Office of Technology Transitions (OTT)
Technology Commercialization Fund (TCF)
Proposal Eligibility Declaration (PED)

Download the form at
<https://www.labpartnering.org/TCF/About>

PLEASE COMPLETE ALL PAGES AND SUBMIT THE DIGITALLY SIGNED VERSION TO
TCF@HQ.DOE.GOV AND TCFSUBMISSIONS@INL.GOV

PROJECT ADMINISTRATIVE DETAIL AND SUMMARY

PROJECT INFORMATION

Project Title (Required)	
Period of Performance (Required) Topic 1: 6 – 18 months Topic 2: 12 – 36 months	
Brief Overview (Required) Character Limit: 2,000, including spaces & punctuation	

Principal Investigator Information (Required)

Salutation		First Name		Last Name	
Phone Number		Email Address (Use of DOE facility email required)			
DOE Lead Facility (Required)					

Delegate Information

Salutation		First Name		Last Name	
Phone Number		Email Address (Use of DOE Facility Email Required)			

Topic (Required)

Topic 1 or Topic 2? (see solicitation for description)	
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Completed forms must be submitted no later than 5 p.m. Eastern Time on October 8, 2020

Email completed form to:
TCF@hq.doe.gov and
TCFsubmissions@inl.gov

Proposal Requirements & Review Information



Proposals:

- Are due at **5:00 p.m. ET on December 15, 2020**. Late submissions will not be reviewed.
- Proposals will only be accepted with a corresponding tracking number from an eligible Proposal Eligibility Declaration—and only in a Technology Area(s) for which it passed the mission area review(s). Proposals submitted after the deadline will not be accepted. All Full Proposals will be subject to an eligibility review to determine that:
 1. The Full Proposal matches the project described in the corresponding Proposal Eligibility Declaration
 2. The Full Proposal for funding is complete and contains all the information required
 3. All mandatory requirements are satisfied
 4. The proposed project is responsive to the objectives of this Solicitation

Proposals that pass the eligibility screen will be forwarded for merit review.

Selections will be made based on the following criteria:

1. Commercialization Evaluation (35% of composite score)
2. Technical Merit Evaluation (65% of composite score)

Technical Merit Criterion 1: Technology Maturity (40%)

Technical Merit Criterion 2: Project Plan (40%)

Technical Merit Criterion 3: Project Team and Resources (20%)

Commercialization Evaluation (35% of composite score)

Commercial Impact Criterion

- Extent to which the proposed technology will result in a commercially-successful product and/or company.
- Extent to which the proposed technology has the ability to be successfully commercialized in a reasonable timeframe.
- Extent to which the proposed technology represents an innovative or significant improvement from current state of the art technologies that results in either a product or solution that transforms or replaces existing industry approaches or is a new product or solution that can be widely used by the existing industry and will have significant market impact.
- Extent to which the project team understands the market and its barriers to commercialization.
- Extent to which the applicant identifies and discusses factors or circumstances such as policy or regulations required for the technology to achieve market penetration.

The Technical Merit Evaluation forms 65% of the composite score, and comprises three criteria:

- Technical Merit Criterion 1: Technology Maturity (40%)
- Technical Merit Criterion 2: Project Plan (40%)
- Technical Merit Criterion 3: Project Team and Resources (20%)

Technical Merit Criterion 1: Technology Maturity (40%)

- Technology has demonstrated analytical and experimental proof of concept in a laboratory environment. For example, experiments or modeling and simulation have validated performance prediction of technology capability. Design techniques been identified or developed. Scaling studies have been initiated.
- Extent to which the applicant describes an understanding of complementary technologies or processes that are necessary for the technology to have relevance in the market.
- Extent to which the applicant describes an understanding of technical issues to be addressed to achieve a successful commercial deployment.
- Evidence that the technology can be deployed at scale.

Technical Merit Criterion 2: Project Plan (40%)

- Technical and Commercialization Approach –
 - Quality and reasonableness of the applicant’s plan for closing technical gaps and addressing unanswered technical questions.
 - Quality and reasonableness of the applicant’s business plan for market penetration/adoption.
- Risk Management –
 - Extent to which the applicant discusses and demonstrates understanding of the key technical and commercial uncertainty and risks involved in the proposed work.
 - Extent to which the applicant adequately describes how the applicant’s team will manage and retire risks.
- Goals and Outcomes –
 - Extent to which the project plan clearly describes the goals and outcomes of the project, including measures of technical advancement and business success.
 - Extent to which the proposed tasks and subtask activities in the work plan are verified through performance metrics, milestones, and deliverables that are specific, measurable, aggressive (but attainable), realistic, and timely (i.e., not a report summarizing work that was done).

Technical Merit Criterion 3: Project Team and Resources (20%)

- Capabilities – The extent to which the capability of the Principal Investigator(s) and the proposed team, including partnerships, can address all aspects of the proposed project, including, but not limited to, qualifications, relevant expertise, and time commitment of the individuals on the team.
- Contributions – Clarity, adequacy, and completeness of roles and contributions of each team member in development of the project and/or commercialization of the products, including financial support of partners.
- Readiness – Extent to which the final team, facilities, and equipment required to complete this project are fully in place, assembled, and committed to the project (e.g., there are no key members that are “to be hired at a later date”?).
- Commitment – Extent to which there is demonstrated institutional commitment from senior DOE Facility management and corporate officers of partners.
- Resources – Sufficiency of facilities to support the proposed work, and reasonableness and adequacy of the proposed budget to meet proposed project objectives.

In addition to the merit review criteria, the following program policy factors may be considered in determining which proposals to select for negotiations:

- The degree to which the proposed project offers an opportunity to facilitate commercialization of a promising technology that does not currently have other programmatic support.
- Whether the proposed project offers crosscutting or multi-program benefit and passed the mission relevance review in both its Primary and Secondary Technology Areas.
- Diverse representation of DOE Facilities in the TCF's project portfolio.
- Diversity of technologies.
- Diversity of projects spanning participating DOE Program Offices.

Document Format Requirements

Using templates where provided, all non-budget documentation is to be prepared as a standard 8.5" × 11" document with 1-inch margins all around (i.e., top, bottom, left, and right), and using a font size no smaller than Times New Roman 11 point. The required file format is Portable Document Format (PDF) for all documents except for budget spreadsheets.

Applicants should not upload scanned images of their proposals, as this will cause them to fail the conformance review. CONVERT DOCUMENTS TO PDF.

All spreadsheets are to be uploaded in Excel file format. Do NOT lock any cells in the spreadsheet. **Full Proposal uploads must include a footer with the file name (e.g., FY21 Project Narrative Your Specific Tracking ID#).**

Applicants may not include in their PEDs any figures, drawings, pictures, schematics, videos, etc. Please see Section V.C.2 for information about including illustrations in Full Proposals.

After the PEDs deadline, applicants may submit a request to make **some** changes until 5:00 p.m. (ET) December 1, 2020.

To change or update information such as the PI, partner, Topic, TCF funding request, or period of performance, please email TCF@hq.doe.gov. The TCF team will make the updates unless there is any question, in which case someone will contact you for more information or with an explanation about why the change request cannot be accepted.

After the PEDs submission deadline on October 8, 2020, OTT will not consider changes to Technology Area(s) and justification(s), or Mission Narratives.

OTT will not consider any updates or changes after 5:00 p.m. (ET) December 1, 2020.

Full Proposals

- The deadline for Full Proposals is 5:00 p.m. (ET) December 15, 2020.
- Topic 1 proposal narrative documents must not exceed six (6) pages.
- Topic 2 proposal narrative documents must not exceed 12 pages.
- In addition to the narrative document, Full Proposals include the following mandatory supplemental pages, which do not factor into the 6- and 12-page limits:
 - Budget form.
 - Technical summary/abstract for public release.
 - Letter(s) of commitment from any private partner(s) that will sign a CRADA or other approved partnership agreement.

OTT will instruct Independent Merit Reviewers that they may not consider information inserted by hyperlink. Applicants should use their best judgment when including footnotes, endnotes, references, illustrations of any kind, etc., which count against page limits. OTT will delete ALL pages in excess of the maximums prior to forwarding Full Proposals for Independent Merit Review as well as to the relevant Program Offices. Pages in excess of the maximums will not receive any consideration.

Click the "Create New Application" link to begin the full proposal process.



Current Open Calls

Below are the current calls for which you may submit an application under the Technology Commercialization Fund (TCF). Select "Create New Application" next to the call for which you wish to apply. Incomplete applications may be saved. Saved applications are given an ID number and will be listed below.

	Call Name	End Date	Fiscal Year
Create New Application	FY20 TCF Full Proposal	12/12/2019 3:00:00 PM	2020

Your Applications

Following is a list of your saved applications. Click on the pencil icon to make edits.

		Tracking ID	Call Name	Title	Proposal Status	Delegated Rights	Reviewer Comments
		TCF-PED-20-19037	FY20 TCF Proposal Eligibility Declaration	test	Submitted		

From the dropdown menu, select the Proposal Eligibility Declaration ID number that corresponds to the Proposal you want to submit.

Then click the "Select" button to generate the form.

Office of Technology Transitions
Technology Commercialization Fund

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TCF Application

Technology Commercialization Fund application: The form may be saved, revisited, and edited until Thursday, December 12, 2019 3:00 PM MT.

Please select the Proposal Eligibility Declaration this proposal is based on.
NOTE: Once selected, you can not change it!

Identification Number

Tracking ID	Status	Title
19037	Selected	test

The 'Select' button and the table row containing '19037' are highlighted with red annotations.

1. All of the information provided in the Proposal Eligibility Declaration will carry over to the full proposal form. This information is not editable.
2. To make changes to any non-editable field, please contact TCF@hq.doe.gov. Upon approval, OTT will update the form with the edits.

**Office of Technology Transitions
Technology Commercialization Fund**

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TCF Application

Technology Commercialization Fund application: The form may be saved, revisited, and edited until Thursday, December 12, 2019 3:00 PM MT.

Call: FY20 TCF Full Proposal
 Tracking ID: TCF-20-19037 (status - Working)
 Project Title: test
 Period of Performance: 22
 Brief Overview: Test

Principal Investigator Information

Salutation: Dr.
 First Name: Test
 Last Name: Case
 Phone Number: 208-555-1212 (XXX-XXX-XXXX)
 Primary Email: tfcsubmissions@inl.gov
 Confirm Email: tfcsubmissions@inl.gov
 Alternate Email:

Tech Transfer Points of Contact

First	Last	Phone	Email
Lisa	Aldrich	1-208-569-0405	lisa.aldrich@inl.gov
Jason	Stolworthy	1-208-526-3437	jason.stolworthy@inl.gov

Applicants will need to provide the following information: Proposal Narrative, Budget Information, Technical Summary/ Abstract, and Budget spreadsheet.

Proposal Narrative
The proposal narrative document will include the commercialization plan and technical narrative. Please refer to the solicitation for directions and guidelines.

Attachment Name	File Size	File Upload Date	Content Type
No Proposal Narrative uploaded.			
Attach File			

Budget Information
The Budget template can be found [here](#).

Funding Requested

Non-Federal Matching Funds

Proposed Total Budget

Non-Federal Sources Laboratory has verified that matching funds are from non-federal sources

Attachment Name	File Size	File Upload Date	Content Type
No Budget uploaded.			
Attach File			

Technical Summary/Abstract

Attachment Name	File Size	File Upload Date	Content Type
No Technical Summary/Abstract uploaded.			
Attach File			

Appendices

Attachment Name	File Size	File Upload Date	Content Type
No Letter of Commitment uploaded.			
Attach File			

Please attach **Resumes/CVs** in this section (optional).

Attachment Name	File Size	File Upload Date	Content Type
No CVs uploaded.			
Attach File			


Please attach **Letters of Support** in this section (optional).

Attachment Name	File Size	File Upload Date	Content Type
No Letters of Support uploaded.			
Attach File			

After completing and saving this form, the applicant may edit the saved version until Thursday, December 12, 2019 3:00 PM MT. To submit the proposal for final review, the applicant **MUST** click on the "Save and Submit" below. **Forms in the system that are "Saved" but not "Submitted" are considered incomplete and will not be reviewed.**

For assistance with PROPs, please contact Nick Case at 208-526-7804 or nicomissions@nl.gov.

Previously Funded

TrackingID	Complete	Funding Description	Action
None			
+ Add			

Government Funding

- Yes
 No

Please enter a brief (500 characters or less) description of government funding.

Government Funding Description

Previously Funded - If your project or technology received earlier TCF funding
Government Funding – Federal Government Funding, other than TCF

You must download the budget spreadsheet and include the completed form in your proposal submission. "2021 TCF Budget "Tracking ID #". Xlsx".

TCF Project Title: FY20 TCF Project Title							
TCF Tracking Number: TCF-20-XXXX							
TCF Proposal Budget Breakout FY 2020	Total TCF Share	Total Non-Federal Share	Non-Federal Share: Cash	Non-Federal Share: In-Kind	Total Project Costs	% Share	50/50 Matching Funds Requirement Satisfied? Y/N
A. Personnel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
B. Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
C. Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
D. Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
E. Contractual	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
F. Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
G. Total Direct Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
H. Indirect Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
I. Total Project Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
TCF Proposal Budget Breakout FY 2021	Total TCF Share	Total Non-Federal Share	Non-Federal Share: Cash	Non-Federal Share: In-Kind	Total Project Costs	% Share	50/50 Matching Funds Requirement Satisfied? Y/N
A. Personnel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
B. Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
C. Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
D. Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
E. Contractual	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
F. Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
G. Total Direct Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
H. Indirect Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
I. Total Project Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
TCF Proposal Budget Breakout FY 2022	Total TCF Share	Total Non-Federal Share	Non-Federal Share: Cash	Non-Federal Share: In-Kind	Total Project Costs	% Share	50/50 Matching Funds Requirement Satisfied? Y/N
A. Personnel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
B. Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
C. Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
D. Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
E. Contractual	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
F. Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
G. Total Direct Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
H. Indirect Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
I. Total Project Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
TOTAL TCF Proposal Budget Breakout	Total TCF Share	Total Non-Federal Share	Non-Federal Share: Cash	Non-Federal Share: In-Kind	Total Project Costs	% Share	50/50 Matching Funds Requirement Satisfied? Y/N
A. Personnel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
B. Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
C. Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
D. Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
E. Contractual	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
F. Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
G. Total Direct Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
H. Indirect Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	
I. Total Project Costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	

*Please note that in order to be eligible for DOE Funding, a proposal MUST meet the 50/50 cost share requirement as defined in the FY20 TCF Solicitation. It is possible for the non-Federal match to exceed the funding contributed by the TCF, if the DOE site or private partner wished to provide more than 50% of the total project cost.

1. To update Proposal information, go to the “Applications” tab.
2. Click the “Pencil” icon to the left of the Tracking ID under “Your Applications”.
3. Update the application with the missing or incorrect information.
4. Click “Save” to save your updated information.







Current Open Calls

Below are the current calls for which you may submit an application under the Technology Commercialization Fund (TCF). Select "Create New Application" next to the call for which you wish to apply. Incomplete applications may be saved. Saved applications are given an ID number and will be listed below.

	Call Name	End Date	Fiscal Year
Create New Application	FY20 TCF Proposal Eligibility Declaration	10/10/2019 12:00:00 AM	2020
Create New Application	FY20 TCF Full Proposal	12/12/2019 3:00:00 PM	2020

Your Applications

Following is a list of your saved applications. Click on the pencil icon to make edits.

			Tracking ID	Call Name	Title	Proposal Status	Delegated Rights	Reviewer Comments
			TCF-19-19063	FY20 TCF Full Proposal	Test Project Title Example	Working		
			TCF-PED-20-19063	FY20 TCF Proposal Eligibility Declaration	Test Project Title Example	Submitted		



1. To delegate your Proposal Eligibility Declaration and/or Proposal, go to the “Applications” tab.
2. Click the “Lock” icon to the left of the Tracking ID.
3. In the “New and Pending Delegation Requests,” select “Create New Request.”
4. Provide the requested information on the individual receiving delegation rights, the type of permission they will receive, and click the “check” icon. The person must have a user account.

Office of Technology Transitions
Technology Commercialization Fund

You are logged in as TCFsubmissions@inl.gov
Logout

Applications Reports My Information

Current Open Calls

Below are the current calls for which you may submit an application under the Technology Commercialization Fund (TCF). Select "Create New Application" next to the call for which you wish to apply. Incomplete applications may be saved. Saved applications are given an ID number and will be listed below.

	Call Name	End Date	Fiscal Year
Create New Application	FY20 TCF Full Proposal	12/12/2019 3:00:00 PM	2020

Your Applications

Following is a list of your saved applications. Click on the pencil icon to make edits.

	Tracking ID	Call Name	Title	Proposal Status	Delegated Rights	Reviewer Comments
	TCF-PED-20-19063	FY20 TCF Proposal Eligibility Declaration	Test Project Title Example	Submitted		

Tracking ID: TCF-PED-20-19063
Title: Test Project Title Example

Delegated Rights

First Name	Last Name	Email	Permission		
None					

Page: 1 of 1 Go Page size: 1 Change Item 0 to 0 of 0

New and Pending Delegation Requests

+ Create New Request Refresh

First Name	Last Name	Email	Permission		
			Proposal Admin	<input checked="" type="checkbox"/>	

None

Direct questions about the TCF program rules and proposal process to TCF@hq.doe.gov.

Questions about using the online Proposal and Review Operations Platforms (PROPs) should be directed to TCFSubmissions@inl.gov.

All Q&A will be distributed to the TCF POCs at the Facilities, as well as to anyone who submits a question during the Q&A period.

Information via other channels will not have standing from OTT.

Questions about the TCF program rules and proposal process:
TCF@hq.doe.gov

Questions about using the Proposal and Review Operations
Platforms (PROPs), uploading to Box the online application
portal: TCFSubmissions@inl.gov

