STEVenson-WYDLer (15 U.S.C. 3710a)
COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT
(hereinafter “CRADA”)

No.NFE-1X-0XXXX

BETWEEN

UT-Battelle, LLC
under its U.S. Department of Energy Contract No. DE-AC05-00OR22725
(hereinafter “Contractor”)

AND

Participant
(hereinafter “Participant”),

both being hereinafter jointly referred to as the “Parties.”

ARTICLE I: DEFINITIONS

A. “Background Intellectual Property” means the Contractor’s Intellectual Property identified by the Contractor in Appendix B, Background Intellectual Property, which was in existence prior to or is first produced outside of this CRADA, except that in the case of inventions in those identified items, the inventions must have been conceived outside of this CRADA and not first actually reduced to practice under this CRADA to qualify as Background Intellectual Property.

B. “Contracting Officer” means the DOE employee administering the Contractor’s DOE contract.

C. “DOE” means the Department of Energy, an agency of the Federal Government.

D. “Generated Information” means information, including data, produced in the performance of this CRADA.

E. “Government” means the Federal Government of the United States of America and agencies thereof.

F. “Intellectual Property” means patents, trademarks, copyrights, mask works, Protected CRADA Information, and other forms of comparable property rights protected by Federal law and foreign counterparts, except trade secrets.

G. “Proprietary Information” means information, including data, which is developed at private expense outside of this CRADA, is marked as Proprietary Information, and embodies: (1) trade secrets; or (2) commercial or financial information which is privileged or confidential under the Freedom of Information Act [5 U.S.C. 552 (b)(4)].

H. “Protected CRADA Information” means Generated Information which is marked as being Protected CRADA Information by a Party to this CRADA and which would have been Proprietary Information had it been obtained from a non-Federal entity.

I. “Subject Invention” means any invention of the Contractor or Participant conceived or first actually reduced to practice in the performance of work under this CRADA.
J. “Computer Software” means (1) computer programs that comprise a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations; and (2) recorded information comprising source code listings, design details, algorithms, processes, flow charts, formulas, and related material that would enable the computer program to be produced, created, or compiled.

ARTICLE II: STATEMENT OF WORK, TERM, FUNDING AND COSTS

A. The Statement of Work is attached as Appendix A.

B. The effective date of this CRADA shall be the latter date of: (1) the date on which it is signed by the last of the Parties; or (2) the date on which it is approved by DOE. The work to be performed under this CRADA shall be completed within ??? (XX) months/years from the effective date.

B. The effective date of this CRADA shall be the latter date of: (1) the date on which it is signed by the last of the Parties; (2) the date on which it is approved by DOE; or (3) the date on which the advance funding referred to in this Article is received by the Contractor. The work to be performed under this CRADA shall be completed within ??? (XX) months/years from the effective date.

C. The Participant’s estimated contribution is $XXX,XXX, of which $XXX,XXX is funds-in to the Contractor. The Government’s estimated contribution, which is provided through the Contractor’s contract with DOE, is $XXX,XXX, subject to available funding.

D. The Participant shall provide to the Contractor, prior to any work being performed, a budgetary resource sufficient to cover anticipated work that will be performed for the Participant’s directly funded share for the first billing cycle. In addition, the Participant shall provide sixty (60) days of additional funding to ensure that funds remain available for the Participant’s directly funded share for subsequent billing cycles.

ARTICLE III: PERSONAL PROPERTY

All tangible personal property produced or acquired under this CRADA (specifically excluding Intellectual Property rights, Background Intellectual Property, and Proprietary Information) shall become the property of the Participant or the Government, depending upon whose funds were used to obtain it. Personal property shall be disposed of as directed by the owner at the owner’s expense. There shall not be any jointly funded property under this CRADA except by the mutual agreement of the Parties. The Participant shall maintain records of receipts, expenditures, and the disposition of all Government property in its custody related to the CRADA.

ARTICLE IV: DISCLAIMER

THE GOVERNMENT, THE PARTICIPANT, AND THE CONTRACTOR MAKE NO EXPRESS OR IMPLIED WARRANTY AS TO THE CONDITIONS OF THE RESEARCH OR ANY INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DEVELOPED UNDER THIS CRADA, OR THE OWNERSHIP, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF THE RESEARCH OR RESULTING PRODUCT. NEITHER THE GOVERNMENT, THE PARTICIPANT, NOR THE CONTRACTOR SHALL BE LIABLE FOR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ATTRIBUTED TO SUCH RESEARCH OR RESULTING PRODUCT, INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DEVELOPED UNDER THIS CRADA.

ARTICLE V: PRODUCT LIABILITY

Except for any liability resulting from any negligent acts, willful misconduct or omissions of the Contractor or the Government, the Participant indemnifies the Government and the Contractor for all
damages, costs, and expenses, including attorney’s fees, arising from personal injury or property damage occurring as a result of the making, using, or selling of a product, process, or service by or on behalf of the Participant, its assignees, or licensees, which was derived from the work performed under this CRADA. In respect to this article, neither the Government nor the Contractor shall be considered assignees or licensees of the Participant, as a result of reserved Government and Contractor rights. The indemnity set forth in this paragraph shall apply only if the Participant shall have been informed as soon and as completely as practical by the Contractor and/or the Government of the action alleging such claim and shall have been given an opportunity, to the maximum extent afforded by applicable laws, rules, or regulations, to participate in and control its defense, and the Contractor and/or the Government shall have provided all reasonably available information and reasonable assistance requested by the Participant. No settlement for which the Participant would be responsible shall be made without the Participant’s consent unless required by final decree of a court of competent jurisdiction.

ARTICLE VI: RIGHTS IN SUBJECT INVENTIONS

Wherein DOE has granted the Participant and the Contractor the right to elect to retain title to their respective Subject Inventions:

A. Each Party shall have the first option to elect to retain title to any of its Subject Inventions and that election shall be made: (1) for the Participant, within twelve (12) months of disclosure of the Subject Invention to DOE; or (2) for the Contractor, within the time period specified in its prime contract for electing to retain title to Subject Inventions. However, such election shall occur not later than sixty (60) days prior to the time when any statutory bar might foreclose filing of a U.S. patent application. The electing Party has one (1) year to file a patent application after such election unless any statutory bar exists. If a Party elects not to retain title to any of its Subject Inventions or fails to timely file a patent application, the other Party shall have the second option to elect to obtain title to such Subject Invention. For Subject Inventions that are joint Subject Inventions of the Contractor and the Participant, title to such Subject Inventions shall be jointly owned by the Contractor and the Participant.

B. The Parties agree to assign to DOE, as requested by DOE, the entire right, title and interest in any country to each Subject Invention where the Parties: (1) do not elect pursuant to this article to retain/obtain such rights, or (2) elect to retain/obtain title to a Subject Invention but fail to have a patent application filed in that country on the Subject Invention or decide not to continue prosecution or not to pay any maintenance fees covering the Subject Invention. If DOE is granted a patent on Participant’s Subject Invention, the Participant may request a non-exclusive license and DOE will determine whether to grant such license pursuant to statutory authority.

C. The Parties acknowledge that the Government retains a nonexclusive, nontransferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States every Subject Invention under this CRADA throughout the world. The Parties agree to execute a confirmatory license to affirm the Government’s retained license.

D. The Parties agree to disclose to each other each Subject Invention which may be patentable or otherwise protectable under U.S. patent law. The Parties agree that the Contractor and the Participant will disclose their respective Subject Inventions to DOE and each other within two (2) months after the inventor first discloses the Subject Invention in writing to the person(s) responsible for patent matters of the disclosing Party. These disclosures should be in sufficiently complete technical detail to convey a clear understanding, to the extent known at the time of the disclosure, of the nature, purpose, and operation of the Subject Invention. The disclosure shall also identify any known actual or potential statutory bars, e.g., printed publications describing the Subject Invention or the public use or “on sale” of the Subject Invention. The Parties further agree to disclose to each other any subsequently known actual or potential statutory bar that occurs for a Subject Invention disclosed but
for which a patent application has not been filed. All Subject Invention disclosures shall be marked as confidential under 35 U.S.C. 205.

E. The Parties agree to include within the beginning of the specification of any U.S. patent applications and any patents issuing thereon (including non-U.S. patents) covering a Subject Invention, the following statement: “This invention was made under CRADA No. NFE-1X-0XXXX between Participant and UT-Battelle, LLC, management and operating contractor for the Oak Ridge National Laboratory for the United States Department of Energy. The Government has certain rights in this invention.”

F. The Parties acknowledge that DOE has certain march-in rights to any Subject Inventions in accordance with 48 CFR 27.304-1(g) and 15 U.S.C. 3710a(b)(1)(B) and (C).

G. The Participant agrees to submit, for a period of five (5) years from the date of termination or completion of this CRADA and upon request of DOE, a nonproprietary report no more frequently than annually on efforts to utilize any Intellectual Property arising under the CRADA including information regarding compliance with U.S. Competitiveness provision of this CRADA.

H. The Participant has the option, for six (6) months after Contractor Subject Inventions are disclosed to the Participant, to choose, for reasonable compensation, an exclusive license in Contractor’s Subject Inventions in the field of use of Field of Use.

ARTICLE VII: RIGHTS IN DATA

A. The Parties agree that they shall have no obligations of nondisclosure or limitations on their use of, and the Government shall have unlimited rights in, all Generated Information produced and information provided by the Parties under this CRADA, except for restrictions on data provided for in this Article or data disclosed in a Subject Invention disclosure being considered for patent protection.

B. PROPRIETARY INFORMATION: Each Party agrees to not disclose Proprietary Information provided by the other Party to anyone other than the CRADA Participant, Contractor and its subcontractors (if any) performing work under this CRADA without written approval of the providing Party, except to Government employees who are subject to the statutory provisions against disclosure of confidential information set forth in the Trade Secrets Act (18 U.S.C. 1905). Government employees shall not be required to sign non-disclosure agreements due to the provisions of the above-cited statute. If Proprietary Information is orally disclosed to a Party, it shall be identified as such, orally, at the time of disclosure and confirmed in a written summary thereof, appropriately marked by the disclosing Party, within ten (10) days as being Proprietary Information. All Proprietary Information shall be protected for a period of two (2) years from the date of disclosure, unless such Proprietary Information becomes publicly known without the fault of the recipient, shall come into recipient’s possession without breach by the recipient of any of the obligations set forth herein, can be demonstrated by the recipient by written record that it is known prior to receipt from disclosing party, is disclosed by operation of law, or is independently developed by recipient’s employees who did not have access to such Proprietary Information.

C. PROTECTED CRADA INFORMATION: Except where a Participant’s Federal funding agreement prohibits such protection, each Party may designate and mark as Protected CRADA Information any Generated Information produced by its employees, which meets the definition in Article I and, with the agreement of the other Party, so designate any Generated Information produced by the other Party’s employees which meets the definition in Article I. All such designated Protected CRADA Information shall be appropriately marked. For a period of two (2) years from the date Protected CRADA Information is produced, the Parties agree not to further disclose such information and to use the same degree of care and discretion, but no less than reasonable care and discretion, to avoid disclosure, publication or dissemination of such information to a third party, as the Party employs for
similar protection of its own information which it does not desire to disclose, publish, or disseminate except:

1. as necessary to perform this CRADA;
2. as published in a patent application or an issued patent before the protection period expires;
3. as provided in Article X [REPORTS AND PUBLICATIONS];
4. as requested by the DOE Contracting Officer to be provided to other DOE facilities for use only at those DOE facilities solely for Government use only with the same protection in place and marked accordingly;
5. when a specific maximum time period for delaying the public release of data is authorized in the terms of a Government funding agreement used to fund this CRADA and that maximum period is shorter than the time period set forth in this Article for protecting Protected CRADA Information;
6. to existing or potential licensees, affiliates, customers, or suppliers of the Parties in support of commercialization of the technology with the same protection in place. Disclosure of the Participant’s Protected CRADA Information under this subparagraph shall only be done with the Participant’s consent; or
7. as mutually agreed to by the Parties in advance.

The obligations of this paragraph shall end sooner for any Protected CRADA Information which shall become publicly known without fault of either Party, shall come into a Party’s possession without breach by that Party of the obligations of paragraph above, or shall be independently developed by a Party’s employees who did not have access to the Protected CRADA Information. Federal Government employees who are subject to 18 U.S.C. 1905 may have access to Protected CRADA Information and shall not be required to sign non-disclosure agreements due to the provisions of the statute.

D. COPYRIGHT: The Parties may assert copyright in any of their Generated Information. Assertion of copyright generally means to enforce or give an indication of an intent or right to enforce such as by marking or securing Federal registration. Copyrights in co-authored works by employees of the Parties shall be held jointly, and use by either Party shall be without accounting. For all Generated Information, the Government has for itself and others acting on its behalf, a royalty-free, nontransferable, nonexclusive, irrevocable worldwide copyright license to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government, in all copyrightable works produced in the performance of this CRADA, subject to the restrictions this Article places on publication of Proprietary Information and Protected CRADA Information. The Parties agree that no computer software will be created under this CRADA. If the scope of work changes to create computer software, then the CRADA will be amended accordingly. The Parties agree to place copyright and other notices, as appropriate for the protection of copyright, in human-readable form onto all physical media, and in digitally encoded form in the header of machine-readable information recorded on such media such that the notice will appear in human-readable form when the digital data are off loaded or the data are accessed for display or printout.

D. COPYRIGHT: The Parties may assert copyright in any of their Generated Information. Assertion of copyright generally means to enforce or give an indication of an intent or right to enforce such as by marking or securing Federal registration. Copyrights in co-authored works by employees of the Parties shall be held jointly, and use by either Party shall be without accounting.

COMPUTER SOFTWARE: For all Computer Software produced in the performance of this CRADA, the Parties shall provide an Announcement Notice, AN 241.4 Software Announcement Notice, along with providing the source code, the executable object code and the minimum support
documentation needed by a competent user to understand and use the Computer Software to DOE’s Energy Science and Technology Software Center (ESTSC) via www.osti.gov/estsc. The source code of the Computer Software may be marked as Protected CRADA Information in accordance with this Article; however, the Government’s use of the executable object code is governed by the applicable license below.

For Generated Information that is Copyrighted Computer Software produced by a Party, the Party shall inform DOE’s ESTSC when it abandons or no longer commercializes the Copyrighted Computer Software. Until such notice to ESTSC, the Government has for itself and others acting on its behalf, a royalty-free, nontransferable, nonexclusive, irrevocable worldwide copyright license to reproduce, prepare derivative works, and perform publicly and display publicly, by or on behalf of the Government (narrow license). After the Party owning the copyrighted Computer Software abandons or no longer commercializes the copyrighted Computer Software, the Government has for itself and others acting on its behalf, a royalty-free, nontransferable, nonexclusive, irrevocable worldwide copyright license to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government (broad license).

For all other Generated Information where a Party asserts copyright in copyrightable works produced in the performance of this CRADA, the Government has for itself and others acting on its behalf, a royalty-free, nontransferable, nonexclusive, irrevocable worldwide copyright license to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government, subject to the restrictions this Article places on publication of Proprietary Information and Protected CRADA Information.

The Parties agree to place copyright and other notices, as appropriate for the protection of copyright, in human-readable form onto all physical media, and in digitally encoded form in the header of machine-readable information recorded on such media such that the notice will appear in human-readable form when the digital data are off loaded or the data are accessed for display or printout.

ARTICLE VIII: U.S. COMPETITIVENESS

The Parties agree that a purpose of this CRADA is to provide substantial benefit to the U.S. economy.

A. In exchange for the benefits received under this CRADA, the Participant therefore agrees to the following:
   1. Products embodying Intellectual Property developed under this CRADA shall be substantially manufactured in the United States; and
   2. Processes, services, and improvements thereof which are covered by Intellectual Property developed under this CRADA shall be incorporated into the Participant’s manufacturing facilities in the United States either prior to or simultaneously with implementation outside the United States. Such processes, services, and improvements, when implemented outside the United States, shall not result in reduction of the use of the same processes, services, or improvements in the United States.

B. The Contractor agrees to a U.S. Industrial Competitiveness clause in accordance with its prime contract with respect to any licensing and assignments of its Intellectual Property arising from this CRADA, except that any licensing or assignment of its intellectual property rights to the Participant shall be in accordance with the terms of Paragraph A of this Article.

ARTICLE IX: EXPORT CONTROL

THE PARTIES UNDERSTAND THAT MATERIALS AND INFORMATION RESULTING FROM THE PERFORMANCE OF THIS CRADA MAY BE SUBJECT TO EXPORT CONTROL LAWS AND THAT EACH PARTY IS RESPONSIBLE FOR ITS OWN COMPLIANCE WITH SUCH LAWS.
EXPORT LICENSES OR OTHER AUTHORIZATIONS FROM THE U.S. GOVERNMENT MAY BE REQUIRED FOR THE EXPORT OF GOODS, TECHNICAL DATA OR SERVICES UNDER THIS CRADA. THE PARTIES ACKNOWLEDGE THAT EXPORT CONTROL REQUIREMENTS MAY CHANGE AND THAT THE EXPORT OF GOODS, TECHNICAL DATA OR SERVICES FROM THE U.S. WITHOUT AN EXPORT LICENSE OR OTHER APPROPRIATE GOVERNMENTAL AUTHORIZATION MAY RESULT IN CRIMINAL LIABILITY.

ARTICLE X: REPORTS AND PUBLICATIONS

A. The Parties agree to produce the following deliverables to the DOE Office of Scientific and Technical Information (OSTI):

1. An initial abstract suitable for public release at the time the CRADA is executed;
2. A final report, upon completion or termination of this CRADA, to include a list of Subject Inventions; and
3. Other scientific and technical information in any format or medium that is produced as a result of this CRADA that is useful to the Government or the public as specified by and upon request from DOE no later than two (2) years from submission of the final report to OSTI.

The Parties acknowledge that the Contractor has the responsibility to timely provide the above information to OSTI. Furthermore, the final report described in Paragraph A.2 above should also be provided to the DOE field office.

B. The Parties agree to secure pre-publication review from each other wherein the nonpublishing Party shall provide within thirty (30) days any written objections to be considered by the publishing Party.

C. The Parties agree that neither will use the name of the other Party or its employees in any promotional activity, such as advertisements, with reference to any product or service resulting from this CRADA, without prior written approval of the other Party.

ARTICLE XI: FORCE MAJEURE

No failure or omission by the Contractor or the Participant in the performance of any obligation under this CRADA shall be deemed a breach of this CRADA or create any liability if the same shall arise from any cause or causes beyond the control of the Contractor or the Participant, including but not limited to the following, which, for the purpose of this CRADA, shall be regarded as beyond the control of the Party in question: Acts of God, acts or omissions of any government or agency thereof, compliance with requirements, rules, regulations, or orders of any governmental authority or any office, department, agency, or instrumentality thereof, fire, storm, flood, earthquake, accident, acts of the public enemy, war, rebellion, insurrection, riot, sabotage, invasion, quarantine, restriction, transportation embargoes, or failures or delays in transportation.
ARTICLE XII: DISPUTES
The Parties shall attempt to jointly resolve all disputes arising from this CRADA. In the event a dispute arises under this CRADA, the Participant is encouraged to contact Contractor’s Technology Partnerships Ombudsman in order to further resolve such dispute before pursuing third-party mediation or other remedies. If the Parties are unable to jointly resolve a dispute within sixty (60) days, they agree to submit the dispute to a third-party mediation process that is mutually agreed upon by the Parties. To the extent that there is no applicable U.S. Federal law, this CRADA and performance thereunder shall be governed by the laws of the State of Tennessee, without reference to that state’s conflict of laws provisions.

ARTICLE XIII: ENTIRE CRADA, MODIFICATIONS, ADMINISTRATION AND TERMINATION
A. This CRADA with its appendices contains the entire agreement between the Parties with respect to the subject matter hereof, and all prior representations or agreements relating hereto have been merged into this document and are thus superseded in totality by this CRADA.

B. Any agreement to materially change any terms or conditions of this CRADA or the appendices shall be valid only if the change is made in writing, executed by the Parties, and approved by DOE.

C. The Contractor enters into this CRADA under the authority of its prime contract with DOE. The Contractor is authorized to and will administer this CRADA in all respects unless otherwise specifically provided for herein. Administration of this CRADA may be transferred from the Contractor to DOE or its designee with notice of such transfer to the Participant, and the Contractor shall have no further responsibilities except for the confidentiality, use and/or nondisclosure obligations of this CRADA.

D. This CRADA may be terminated by either Party upon sixty (60) days’ written notice to the other Party. If Article III provides for advance funding, this CRADA may also be terminated by the Contractor in the event of failure by the Participant to provide the necessary advance funding. In the event of termination by either Party, each Party shall be responsible for its share of the costs incurred through the effective date of termination, as well as its share of the costs incurred after the effective date of termination, and which are related to the termination.
Article XIV: NOTICES

Any communications required by this CRADA, if given by postage prepaid first class U.S. Mail or other verifiable means addressed to the Party to receive the communication, shall be deemed made as of the day of receipt of such communication by the addressee, or on the date given if by email. Address changes shall be made by written notice and shall be effective thereafter. All such communications, to be considered effective, shall include the number of this CRADA. The addresses, telephone numbers, and email addresses for the Parties, and for the DOE Patent Counsel to whom the reports required in Article VI should be sent, are as follows:

**FORMAL NOTICES AND COMMUNICATIONS, COPIES OF REPORTS**

<table>
<thead>
<tr>
<th>For Contractor</th>
<th>For Participant</th>
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</thead>
<tbody>
<tr>
<td>Mark Reeves</td>
<td>Participant’s Contract Officer’s Name</td>
</tr>
<tr>
<td>Group Leader, Sponsored Research</td>
<td>Title</td>
</tr>
<tr>
<td>Oak Ridge National Laboratory</td>
<td>Address 1</td>
</tr>
<tr>
<td>P.O. Box 2008</td>
<td>Address 2</td>
</tr>
<tr>
<td>Oak Ridge, Tennessee 37831-6468</td>
<td>Address 3</td>
</tr>
<tr>
<td>Voice: 865.576.2577</td>
<td>City, State ZIP</td>
</tr>
<tr>
<td>Email: <a href="mailto:reevesme@ornl.gov">reevesme@ornl.gov</a></td>
<td>Voice: XXX.XXX.XXXX</td>
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**PROJECT MANAGER, REPORTS, COPIES OF FORMAL NOTICES AND COMMUNICATIONS**

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<thead>
<tr>
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**OTHER CONTACT INFORMATION**

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<tr>
<th>DOE Patent Counsel</th>
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<tr>
<td>Emily G. Schneider, Esquire</td>
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<td>Assistant Chief Counsel for Intellectual Property</td>
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<tr>
<td>U.S. Department of Energy</td>
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<td>Address 2</td>
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<td>200 Administration Road</td>
<td>Address 3</td>
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<td>Voice: XXX.XXX.XXXX</td>
</tr>
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</table>
| Fax: 865.576.1556 | Email: ???@???.???
| Email: Emily.Schneider@Science.doe.gov |
CRADA No. NFE-1X-0XXX (Participant)

Invoice Payments to Contractor Only

**VIA WIRE TRANSFER**
- Bank Name: US Treasury, New York, NY
- ABA: 021030004
- Account Number/Agency Location Code: 89000001
- Beneficiary: UT-Battelle, LLC, Oak Ridge, TN

**VIA EXPRESS MAIL**
- UT-Battelle, LLC
- ATTN: Treasury Services MS-6437
- P.O. Box 2008
- Oak Ridge, TN 37830

**VIA AUTOMATED CLEARING HOUSE (ACH)**
- Depository Institution: Cashlink ACH Receiver — Federal Reserve
- Routing Transit Number: 051036706
- Account Name: UT-Battelle, LLC
- Account Number: 349010
- Type of Account: Checking

For PARTICIPANT

<table>
<thead>
<tr>
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<tr>
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Appendix A

STATEMENT OF WORK

for

CRADA No. NFE-1X-0XXXX

with

Participant

for

Title of CRADA

[GENERAL NOTE: BE SURE TO REFER TO UT-BATTELLE AND/OR OAK RIDGE NATIONAL LABORATORY AS “CONTRACTOR,” AND TO THE COLLABORATING PARTNER AS “PARTICIPANT,” THROUGHOUT THIS DOCUMENT (ANYWHERE BELOW THIS POINT IN THE DOCUMENT). BE SURE TO: (1) DEFINE ALL ACRONYMS; (2) RUN SPELL AND GRAMMAR CHECK BEFORE SUBMITTING. RED FONT INDICATES INFORMATION THAT NEEDS TO BE FILLED IN BY THE PI.

WHEN COMPLETED, DELETE THE ITALICIZED SOW INSTRUCTIONS.]

Purpose and Background

[State the purpose of the CRADA.
Provide background information, such as the nature of the problem, results of previous studies, if any.
Describe the expected goals or accomplishments and benefits of the project.
Provide a statement of the desired results/products.]

Scope of Work

[Describe the technical objective(s) of the CRADA.
Break down the work by tasks
Under each task:

• Describe the objective for the task;

• Define the task responsibilities for each Party (CRADAs must be collaborative, and therefore the Statement of Work needs to clearly demonstrate the collaborative nature of the project and there must be task participation shown for each Party); and

• List the completion date (by Project Month—number of months after the effective date of the CRADA) for each task.]
The last task should be shown as completion of a CRADA Final Report

Task 1

Task 2

Task 3

Task 4

Task 5

Etc.

Property Considerations
The following tangible property will be exchanged: [Is any property changing hands? Either list property to be exchanged or state “None.”] The disposition of this property shall be in accordance with CRADA Article III: PERSONAL PROPERTY.

Estimated Cost and Source of Support
The contributions by each Party are specified in CRADA Article II, Paragraph C. The flow of funds is summarized below for each Project Year (PY), inclusive of any applicable Federal Administrative Charges (FAC)*.

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*FAC is mandated by Section 3137 of the Strom Thurmond National Defense Authorization Act of 1999 (Public Law 105-261); does not apply if there are no funds-in from Participant.

[For CRADA projects anticipated to be done under the DOE Short-Form CRADA (the terms of which are strictly non-negotiable), the total budget for the project (far lower right corner of the table above) CANNOT exceed $500,000. Please note that the budgetary periods in the CRADA funding table are PROJECT YEARS, not FISCAL YEARS. Project Year 1 begins on the effective date of the CRADA, and is 12 months long. Every subsequent Project Year is also 12 months long, except possibly the last one, if the project will only last a portion of the final Project Year.]
Deliverables

In addition to the minimum deliverables shown in Article X of the CRADA, the following will be delivered: [List any additional milestones or deliverables and the Project Month in which each milestone or deliverable is due.]

Schedule

The duration of this project is [State the period of performance in months or years, i.e., 6 months or 2 years. As a reminder, projects tend to start slowly especially since there are multiple approvals and notifications that must occur, and accounts have to be opened, before work starts. In addition, all work including the final report must be completed within the period of performance. Please factor in these items when developing your schedule and include review time of the report by the partner. Any project management projections (Gantt charts, etc.) may be included in this section, if desired. Also, keep in mind that the duration for the project you stipulate in this section must be in conformance with the budget table above. For instance, you cannot have a 12 month project stipulated under this Schedule section, and have the funding spread over two or more Project Years in the table above. Project Years are not Fiscal Years; Project Year 1 begins on the effective date of the CRADA.]

Program Management

The principal investigators for this CRADA are ORNL Principal Investigator (Contractor) and Participant Principal Investigator (Participant). [State here any plans or requirements for program management or reporting to keep the project on track, such as periodic meetings between the PIs, monthly, quarterly, yearly, etc. reports, and the like.]
Appendix B

BACKGROUND INTELLECTUAL PROPERTY

The Contractor has identified the following Background Intellectual Property, which may be used in its performance of work under this CRADA and may be needed to practice the results of this CRADA:

[List BIP here, including name of invention/copyright, internal ID number, status of intellectual property protection, etc., or state “None.”]

The Contractor has used reasonable efforts to list all relevant Background Intellectual Property, but Intellectual Property may exist that is not identified. The Contractor shall not be liable to the Participant because of failure to list Background Intellectual Property.