



STATE OF CALIFORNIA

CONTRACT REQUEST FORM (CRF)

CEC-94 (Revised 12/2019)

CALIFORNIA ENERGY COMMISSION

A) New Agreement # 600-21-003 (to be completed by CGL office)

B) Division	Agreement Manager:	MS-	Phone
Fuels and Transportation Division	Tim Olson	44	916-698-1278

C) Contractor's Legal Name	Federal ID #
The Regents of the University of California on behalf of the Davis campus	94-6036494

D) Title of Project
STEPS+ Membership

E) Term and Amount

Start Date	End Date	Amount
11 / 15 / 2021	11 / 15 / 2023	\$ 160,000

F) Business Meeting Information

☐ Operational agreement (see CAM Manual for list) to be approved by Executive Director

☐ ARFVTP agreements \$75K and under delegated to Executive Director

Proposed Business Meeting Date 10 / 13 / 2021 ☐ Consent ☒ Discussion

Business Meeting Presenter Tim Olson Time Needed: 5 minutes

Please select one list serve. Altfuels

Agenda Item Subject and Description:

The Regents of the University of California, Davis Campus. Proposed resolution approving Agreement 600-21-003 with The Regents of the University of California, Davis campus, for a \$160,000 contract for a two-year membership in the Sustainable Transportation Energy Pathways consortium program. Membership allows the CEC to participate in research projects, technical briefings, symposia, workshops, and analyses related to transportation technologies, fuels, air quality, greenhouse gas (GHG) emissions and future mobility, and a concentrated focus on the Sustainable Freight Center. (Clean Transportation Program Funding) Contact: Tim Olson

G) California Environmental Quality Act (CEQA) Compliance

1. Is Agreement considered a "Project" under CEQA?

☐ Yes (skip to question 2) ☒ No (complete the following (PRC 21065 and 14 CCR 15378)):

Explain why Agreement is not considered a "Project":

Agreement will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because the agreement involves research studies conducted by an academic institution. Membership involves attending events and raising public awareness about clean transportation options. This will involve no physical work or construction.

2. If Agreement is considered a "Project" under CEQA:

a) ☐ Agreement **IS** exempt.

☐ Statutory Exemption. List PRC and/or CCR section number:

☐ Categorical Exemption. List CCR section number:



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☐ Common Sense Exemption. 14 CCR 15061 (b) (3) Explain reason why Agreement is exempt under the above section:

b) ☐ Agreement **IS NOT** exempt. (consult with the legal office to determine next steps)

Check all that apply

☐ Initial Study

☐ Negative Declaration

☐ Mitigated Negative Declaration

☐ Environmental Impact Report

☐ Statement of Overriding Considerations

H) List all subcontractors (major and minor) and equipment vendors: (attach additional sheets as necessary)

Legal Company Name:	Budget

I) List all key partners: (attach additional sheets as necessary)

Legal Company Name:

J) Budget Information

Funding Source	Funding Year of Appropriation	Budget List Number	Amount
ARFVTP	20/21	600.118J	\$160,000

R&D Program Area: Select Program Area TOTAL: \$160,000

Explanation for "Other" selection

Reimbursement Contract #:

Federal Agreement #:

K) Contractor's Contact Information

1. Contractor's Administrator/Officer

Name: Grace Victoria Mitzel, UC Davis Institute of Transportation Studies

Address: 1605 Tilia Street, West Village

City, State, Zip: Davis, CA 95616

Phone: 530-754-1727

E-Mail: gvmitzel@ucdavis.edu

2. Contractor's Project Manager

Name: Lew Fulton, UC Davis Institute of Transportation Studies



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Address: 1605 Tilia Street, West
Village

City, State, Zip: Davis, CA 95616

CALIFORNIA ENERGY COMMISSION

Phone: 530-752-3004

E-Mail: Imfulton@ucdavis.edu

L) Selection Process Used

- ☐ Solicitation Select Type Solicitation #: - - # of Bids: Low Bid ☐ No ☐ Yes
- ☐ Non Competitive Bid (Attach DGS-GSPD-09-007 <https://www.dgs.ca.gov/PD/Forms>)
- ☒ Exempt Membership

M) Contractor Entity Type

- ☐ Private Company (including non-profits)
- ☒ CA State Agency (including UC and CSU)
- ☐ Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

N) Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE?

If yes, check appropriate box(es): ☐ SB ☐ MB ☐ DVBE

O) Civil Service Considerations

- ☒ Not Applicable (Agreement is with a CA State Entity or a membership/co-sponsorship)
- ☐ Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)
- ☐ The Services Contracted:
- ☐ are not available within civil service
 - ☐ cannot be performed satisfactorily by civil service employees
 - ☐ are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system.
- ☐ The Services are of such an:
- ☐ urgent
 - ☐ temporary, or
 - ☐ occasional nature
- that the delay to implement under civil service would frustrate their very purpose.

Justification:

P) Payment Method



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1. ☒ Reimbursement in arrears based on:
☐ Itemized Monthly ☐ Itemized Quarterly ☐ Flat Rate ☒ One-time
2. ☐ Advanced Payment
3. ☐ Other, explain:

Q) RetentionIs Agreement subject to retention? ☒ No ☐ YesIf Yes, Will retention be released prior to Agreement termination? ☐ No ☐ Yes**R) Justification of Rates****S) Disabled Veteran Business Enterprise Program (DVBE)**

1. ☐ Exempt (Interagency/Other Government Entity)
2. ☐ Meets DVBE Requirements DVBE Amount:\$ 0 DVBE %:
a. ☐ Contractor is Certified DVBE
b. ☐ Contractor is Subcontracting with a DVBE: Name of DVBE Company
3. ☐ Contractor selected through CMAS or MSA with no DVBE participation
4. ☒ Requesting DVBE Exemption (attach CEC 95)

T) Miscellaneous Agreement Information

1. Will there be Work Authorizations? ☒ No ☐ Yes
2. Is the Contractor providing confidential information? ☒ No ☐ Yes
3. Is the contractor going to purchase equipment? ☒ No ☐ Yes
4. Check frequency of progress reports
☐ Monthly ☐ Quarterly ☒ Other...
5. Will a final report be required? ☒ No ☐ Yes
6. Is the Agreement, with amendments, longer than three years? If yes, why? ☒ No ☐ Yes

U) The following items should be attached to this CRF (as applicable)

- | | | |
|---|---|--|
| 1. Exhibit A, Scope of Work | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Attached |
| 2. Exhibit B, Budget Detail | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Attached |
| 3. DGS-GSPD-09-007, NCB Request | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 4. CEC 95, DVBE Exemption Request | <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Attached |
| 5. CEQA Documentation | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 6. Resumes | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> Attached |
| 7. CEC 105, Questionnaire for Identifying Conflicts | | <input checked="" type="checkbox"/> Attached |

*Tim Olson***Agreement Manager**

September 3, 2021

Date**Office Manager****Date****Deputy Director****Date**

Exhibit A

Scope of Work

PURPOSE

This contract shall provide the California Energy Commission (CEC) with a two-year membership in the Sustainable Transportation Energy Pathways (STEPS+) consortium program conducted by the University of California, Davis (UC Davis) Institute of Transportation Studies (ITS). As part of the membership, the CEC shall gain full access to UC Davis STEPS+ research products related to transportation technologies, fuels, air quality, greenhouse gas emissions, and future mobility. The CEC shall receive additional access to concentrated, deeper dive research in one of five STEPS+ Research Centers as chosen by the CEC, participation in biannual symposia attended by all STEPS+ members and sponsors, and membership on the UC Davis STEPS+ advisory board.

BACKGROUND

The STEPS+ Program at the UC Davis ITS is a multidisciplinary research consortium that brings together the world's leading auto and truck manufacturers, energy firms, utilities, new mobility companies, foundations and government agencies to understand sustainable vehicle and energy solutions. Since 2007 STEPS+ has carried out a wide body of interdisciplinary research projects analyzing and comparing potential transportation energy pathways across program areas including consumer demand and behavior; infrastructure system analysis; environmental, energy, and economic cost analysis; innovation and business strategy; vehicle technology evaluation; policy analysis; integrative scenarios; and understanding critical transition dynamics for sustainable transportation.

As a member of STEPS+, the CEC will be part of forward-thinking discussions to gain insights and increase knowledge of the impacts of transportation energy trends, technology evolution, and sustainable transportation market adoption. The progress of STEPS+ research is a key strategy to assist the CEC in deploying funding to accelerate the roll out of infrastructure in support of zero emission vehicles, develop in-state renewable transportation fuels, and increase California manufacturing of zero emission vehicles, infrastructure equipment and components. The CEC has selected the STEPS+ Sustainable Freight Center as an area of concentration to gain access to deeper dive research on this topic in anticipation of increased statewide emphasis on efforts to spur the growth and adoption of zero emission trucks and buses.

TASKS:

Task 1 - UC Davis shall conduct STEPS+ Consortium research tasks addressing CEC program objectives through the Sustainable Freight Center. Freight movement is on the cusp of major transformations in the U.S. and worldwide. Yet to achieve very low levels of CO₂ as well as pollutant emission reduction goals, complementary solutions will be needed. Starting from the premise that the freight system is the economy in motion, UC Davis research will be conducted at the intersection of transportation,

supply chain management, technology, fuel choices and policy. The research tasks shall evaluate and address issues and actions that provide insights and increase knowledge about the following sustainable freight topics:

- a) The technologies, policies and strategies needed to achieve sustainable trucking, supply chain management and urban freight transportation, including but not limited to, fuel transitions practical for rail, shipping, marine, and air.
- b) Goods movement patterns, supply chain management strategies, intermodal dynamics, new vehicle technologies, and new fuel options, along with infrastructure requirements, environmental impacts, and policy.

The research task will also evaluate and address the following key research questions:

- How can future technologies/fuels be adapted to be more suitable for use by logistics operators (trucking fleets, major retail operators, etc.), and assist them in cost-effectively reducing climate and other environmental impacts? How will changes in delivery systems affect the potential for new technologies?
- How can supply chains be optimized to better accommodate the use of new truck technologies and energy sources (e.g., electricity, hydrogen), particularly in the context of the expected evolution of supply chains, such as omni-channel distribution?
- How can zero emission technologies such as fuel cell and electric vehicles be adopted in long-haul trucking, where range, payload and durability requirements make such adoption challenging? What role can near-zero technologies and fuels, such as biofuels, play to meet sustainability goals?
- What are potential options to track the progress and change in ongoing performance, cost, and market uptake of freight movement modes, fuels and infrastructure that reduce petroleum fuels and result in significant short- and long-term reductions of criteria air pollutants and greenhouse gas emissions? What types and sources of data are required to establish and maintain a tracking system?
- What new technologies and fuel options may make the most sense for rail, shipping, marine, and aviation? How might rail transitions be integrated into roadway vehicle/fuel transitions to achieve scale economies?

Task 2 – UC Davis shall provide the CEC with a customized engagement plan which will include meetings on transportation topics related to the Sustainable Freight Center concentration and selected by the CEC and conduct semi-annual meetings to ensure UC Davis takes into consideration CEC research and policy objectives.

Task 3 – UC Davis shall place up to two (2) CEC staff members (to be chosen by the CEC) to serve on the STEPS+ advisory board for both the overarching STEPS+ program and the STEPS+ Sustainable Freight Center for which CEC membership is provided. The CEC advisor(s) shall be invited to attend the annual STEPS+ board meeting, receive updates on the latest STEPS+ research, and be presented an opportunity to provide feedback on the program research and direction.

DELIVERABLES AND DELIVERY SCHEDULE:

UC Davis shall provide CEC with the following deliverables that shall become immediately available upon the first day of the contract performance:

- Access to STEPS+ invitation-only research symposia (held bi-annually), including free registrations for all CEC employees who desire to attend.
- Access to all STEPS+ briefings, reports, and webinars, including early review of draft documents.
- Free invitations to workshops for the sponsored Sustainable Freight Center.
- Password-protected access to all conference and workshop proceedings.

CONTRACT PERIOD OF PERFORMANCE: November 15, 2021 to November 15, 2023.

STATE OF CALIFORNIA

STATE ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ON
BEHALF OF THE DAVIS CAMPUS

RESOLVED, that the State Energy Resources Conservation and Development Commission (CEC) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the CEC approves Agreement 600-21-003 with The Regents of the University of California, on behalf of the Davis campus for a \$160,000 contract which provides the CEC with a two-year membership in the Sustainable Transportation Energy Pathways consortium program. Membership allows the CEC to participate in research projects, technical briefings, symposia, workshops, and analyses related to transportation technologies, fuels, air quality, greenhouse gas (GHG) emissions and future mobility and a concentrated focus on the Sustainable Freight Center; and

FURTHER BE IT RESOLVED, that the Executive Director or their designee shall execute the same on behalf of the CEC.

CERTIFICATION

The undersigned Secretariat to the CEC does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the CEC held on October 13, 2021.

AYE:

NAY:

ABSENT:

ABSTAIN:

Liza Lopez
Secretariat