

March 30, 2021

RE: RELEASE OF FISCAL YEAR 2021-22 UC-CSU RESEARCH SOLICITATION

Dear University and Community Researchers:

The California Air Resources Board (CARB or Board) has identified its priority research projects for fiscal year 2021-22. The selection of these projects was informed by the Triennial Strategic Research Plan for fiscal years 2021-2024 (Plan). The Plan and the descriptions of the fiscal year 2021-22 projects were released to the public on March 8, 2021 and can be found on our website: <https://ww2.arb.ca.gov/resources/documents/proposed-triennial-strategic-research-plan-and-research-fiscal-years-2021-2024>.

On March 25, 2021, the Plan and the proposed projects were approved by the Board. CARB staff are now soliciting pre-proposals from University of California (UC) and California State University (CSU) researchers for the projects described in the enclosed solicitation. This year, we are encouraging UC and CSU researchers to partner with non-academic and/or newer researchers to submit proposals. Many of the projects are multidisciplinary projects and include equity components, and require community engagement. Additional details related to the solicitation, including upcoming public workshops for the solicitation, can be found on our website: <https://ww2.arb.ca.gov/resources/documents/carb-fiscal-year-2021-2022-research-project-solicitation>.

In order to foster the development of multidisciplinary research teams, descriptions of the projects included in the solicitation are also post on the Empower Innovation website: <https://www.empowerinnovation.net/en/page/help-center-en>. Empower Innovation is an online forum that was created by the California Energy Commission, and facilitates partnerships among diverse researchers, entrepreneurs, and community partners. Interested applicants are encouraged to create profiles on Empower Innovation to seek partnerships and form research teams. Projects with multidisciplinary teams will have a higher chance of being awarded.

If your research team is interested in conducting any of these projects, please submit a pre-proposal to research@arb.ca.gov by 5 p.m. on May 7, 2021.

Responses to this solicitation should include the following:

1. A pre-proposal that does not exceed five-pages and discusses your proposed approach for conducting the research project.
2. A curriculum vitae or statement of qualifications for all major scientists, community members and/or non-academic researchers who would be involved in the study.

3. A brief description of research that has been conducted or is currently underway by the applicant in areas related to this topic (it is preferable, but not required, that this include funding source and amount of research funds).
4. For projects that include an equity component and/or community engagement, it is required that research teams provide a cultural competency statement not to exceed one-page in length.
5. A preliminary budget using the attached Budget Form.

These submissions will be used to gauge the extent of interest and available expertise within the UC and CSU systems. If a pre-proposal is selected for further development, you will be notified prior to May 28, 2021. For selected investigators, an initial full proposal that meets CARB's internal review requirements will be required by June 18, 2021. Funded projects are expected to begin in the late fall of 2021.

For additional information on the research program, please visit our website: <https://ww2.arb.ca.gov/our-work/topics/research>. For questions regarding this solicitation, please contact Dr. Sonya Collier or sonya.collier@arb.ca.gov.

Sincerely,



Elizabeth Scheehle
Chief, Research Division

Enclosure

cc: See next page

cc: Jorn Herner, Research Division
Sarah Pittiglio, Research Division

Budget Summary

Direct Costs		
1.	Labor & Employee Fringe Benefits	\$0
2.	Subcontractor(s)/Consultant(s)	\$0
3.	Equipment	\$0
4.	Travel & Subsistence	\$0
5.	Electronic Data Processing	\$0
6.	Photocopying & Printing	\$0
7.	Mail, Telephone, and Fax	\$0
8.	Materials & Supplies	\$0
9.	Analyses	\$0
10.	Miscellaneous	\$0
Total Direct Cost		\$0
Indirect Costs		
11.	Overhead (Rate: 25%)	\$0
Total Indirect Cost		\$0
Total Direct and Indirect Cost		\$0

List of Projects

Project 1: Expanding Health Analysis

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 2: Updating the Science to Better Inform the Public on the Impacts and Mitigation of Short-Term Exposure Including Wildfire Smoke Events

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 3: Improved Assessment and Tracking of Health Impacts for California Communities Most Burdened by Pollution

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 4: Partnering on a Collaborative Community-Focused Research Path in the Imperial Valley

- [Project page on Empower Innovation](#)
- Detailed statement of work and scoring criteria (Coming soon)

Project 5: Summary and Update of Time Activity Pattern Data to Improve the Understanding of the Exposure to Air Pollution

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 6: Demonstration of Sensor Technologies for On-Road and Off-Road Heavy-Duty Diesel Vehicles

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 7: Estimating Ambient Concentrations of PM2.5 Composition Using Satellite Remote Sensing to Refine Mitigation Strategies

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 8: Understanding the Sources and Formation Regimes of Present-Day PM2.5 to Mitigate Particulate Pollution in California

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 9: Opportunities to Address Past Inequity to Build Healthier, More Sustainable Communities

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 10: Strategies to Improve the Alignment of Planned Transportation Investments with Climate and Equity Goals

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)

Project 11: Pathways to Increasing California Freight System Efficiency – White Paper

- [Project page on Empower Innovation](#)
- [Detailed statement of work and scoring criteria](#)