



Fiscal Year 2025-2026 Research Solicitation Public Meeting

April 1, 2025

CARB Research Project Priorities



Strategic Research Plans

- Public process
- Priorities
- Strategic
- Project selection
- Racial equity and environmental justice
- Planning
- 5 Year Plan – 2025-2030



5-Year Plan – Engagement Opportunities

- May 16
 - Full Draft Plan available to the public, 30-day comment period
 - Submit comments through public docket
- June 26
 - Tune into Board Hearing on Plan
 - The public can provide verbal comments

Projects included in FY25-26 solicitation

- Multi-pesticide monitoring and sampling method development - \$400,000
- Effectiveness of advanced air purifiers and filtration for reducing H₂S, NO₂, VOCs and additional non-PM air pollutants - \$600,000

Important Dates

Date	Milestone
April 10	Letters of interest requested – email to research@arb.ca.gov
May 2	Pre-proposals due – email to research@arb.ca.gov
May 23	All pre-proposal submitters notified of the status of their application
June 6	Full proposals due – email to research@arb.ca.gov
November-March 2025/2026	Kickoff executed contracts

Pre-Proposal Requirements

- Use template provided on solicitation landing page
- Pre-proposal
 - Not to exceed 5 pages
 - Include approach for conducting research
 - Tip: check scoring criteria
 - Tip: Do not copy solicitation text
- CV or Statement of Qualifications for entire project team
- Describe relevant experience
- Preliminary Budget
- Equity components
 - Differs by project

Budget Category	TOTAL
DIRECT COSTS	\$0
PERSONNEL (Salary and Fringe Benefits)	\$0
TRAVEL	\$0
MATERIALS & SUPPLIES	\$0
EQUIPMENT	\$0
CONSULTANT	\$0
SUBAWARDEE(S) (CONSORTIUM/SUBRECIPEINT)	\$0
OTHER DIRECT COSTS (ODC) (Subject to IDC Cal? Y/N)	\$0
TOTAL DIRECT COST (sum of All Direct Costs)	\$0
INDIRECT (F&A) COSTS (BASE)*	\$0
Overhead (Rate: 27%)	\$0
TOTAL F&A COSTS (Indirect Costs Base times overhead rate)	\$0
TOTAL PROJECT COST (Total Direct Costs Base times Total F&A Costs)	\$0

Equity Deliverables

- Common to all projects
 - Racial equity training (implicit bias training or similar) within first few months of contract execution
 - Plain-language outreach materials
 - Quarterly updates for website
 - Equity implications, plain-language summary in final report
 - If equity analysis is required, an equity expert should be part of team
 - Publicly available peer-reviewed articles
 - Final seminar geared toward a wide audience

Contracting

- Contracts – not grants
- Required by H&S code to look for expertise in UC/CSUs
 - Inter-agency agreement with UC/CSU
 - 27% overhead rate (see FAQ for details)
 - Sub-contractors can come from any other university, private research institution or firm, community-based organization, etc.
 - Sub-contractors can receive up to 25% of budget
 - Up to 50% if it can be demonstrated that no expertise exists within the UC/CSU and the contract requirements call for it

Contracting (Continued)

- Advisory Board Transparency Rules
 - No members (or alternatives to the advisory body members who are appointed by the Board) of CARB advisory groups can be signatories to the contract or communicate with CARB regarding CARB's decision on the contracts without significant legal risk per government code 87104.
- Advisory Boards affected
 - AB32 Environmental Justice Advisory Committee
 - AB 617 Consultation Group
 - Scientific Toxic Review Panel
 - Research Screening Committee
 - Natural and Working Lands Expert Advisory Committee (new, under AB 1757)

Project Descriptions

Effectiveness of advanced air purifiers and filtration for reducing H₂S, NO₂, VOCs and additional non-PM air pollutants

- Objective
 - Portable air cleaners (PACs) and HVAC filters are widely used for particulate matter removal; however, their effectiveness in removing gaseous pollutants such as H₂S, VOCs, and odors requires further investigation.
 - Understand the capabilities and limitations of PACs and HVAC filtration in addressing gaseous pollutants in residential and non-residential settings
- Desired Approaches and Outcomes
 - Quantify the effectiveness of various air cleaning filters in removing VOCs and odor-causing compounds from indoor air using controlled chamber studies and real-world field deployments.
 - Compare the efficiency of different filtration technologies
 - To provide recommendations for selecting the most effective air filtration solutions based on specific indoor air quality needs.
 - Evaluate affordability and accessibility of air cleaning technologies for disadvantaged communities suffering from poor IAQ.
 - To develop a guidance document of best practices for buildings with vulnerable populations (such as schools) with intermittent or constant high VOC or odor issues.
- Contact for Questions: Jeff Williams - jeffery.williams@arb.ca.gov

Developing Multiple-Pesticide Detection Method for Investigating Potential Community Exposures (\$400k)

Objective

- To assess the relationships between agricultural pesticide use, air quality, and community exposure risks through the development and application of various tools, reports, and methodologies designed for exposure risk assessment.

Desired Approaches and Outcomes

- **Development of a Visualization Tool:** provide spatially and temporally resolved data on pesticide and fumigant usage across the state of California.
- **Comprehensive Report:** details on current pesticide and fumigant monitoring techniques, as well as analytical methods for assessing exposure.
- **Standard Operating Procedure (SOP):** a cost-effective SOP for detecting multiple pesticides and fumigants, aimed at evaluating community exposure risks in California. This will include a demonstration in collaboration with local communities.
- **Exposure Risk Evaluation:** Use of air quality and dispersion modeling to assess potential exposure risks.

Contact for Questions: Toshi Kuwayama (toshihiro.kuwayama@arb.ca.gov)