



# **Fiscal Year 2022-2023 Research Solicitation Public Meeting**

June 20, 2022

# CARB Research Program Information

- Triennial Strategic Research Plan
  - Research priorities
  - Research planning process
  - Catalog of past and current research efforts
- Website
  - Solicitation
  - Survey
  - Research Screening Committee
  - Contract catalog
- Empower Innovation
  - Find partners
  - Find other funding opportunities
  - Questions:  
[https://www.empowerinnovation.net/en/contact\\_us](https://www.empowerinnovation.net/en/contact_us)



# Final project included in FY22-23 solicitation

- Community Engagement and Community-centric Research Roadmap: Focus on Metals Related Toxic Emissions
  - Cost: \$150,000
  - Detailed Scope of Work and Scoring Criteria available online



# Important Dates

- Friday August 5, 2022 – 5PM PST
  - Pre-proposals due – email to [research@arb.ca.gov](mailto:research@arb.ca.gov)
- August 26, 2022
  - Pre-proposal selected for full proposal development
- September 9, 2022 – 5PM PST
  - Full proposal due
- December 2022-February 2023
  - Kickoff executed contract
- Mid 2024
  - Draft final report due
- Early 2025 (usually 24 months after kickoff)
  - Results available, contract closes

# 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
- Cultural competency/humility statement

Line Item Number	Line Item Description	Cost
	<b>Direct Costs</b>	
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 (Sum 1-10)	\$0
11	Indirect Cost (Overhead: Rate 25%)	\$0
	Total Indirect Cost	\$0
	Total Direct and Indirect Cost	\$0

# Equity Deliverables

- Common to all projects
  - Outreach materials
  - Quarterly updates for website
  - Equity implications, plain-language summary in final report
  - Publicly available peer-reviewed articles
- Specific to projects listed below:

Abbreviated project title	Cultural competency statement	Implicit bias, racial equity training	Compensate engaged partners	Community engagement plan
Development of a Research Roadmap through Community Engagement – Focus on Toxics	Yes	Yes	Yes	Yes



# Cultural Competency

- What it is and isn't
  - Cultural competence is a stance taken toward culture, not a discrete status or simple mastery of particular knowledge and skills.\* Cultural and linguistic competence is a set of congruent behaviors, attitudes, and policies that come together in a system, agency, or among professionals that enables effective work in cross-cultural situations.\*\*
  - A culturally competent researcher is prepared to engage with diverse segments of communities to include cultural and contextual dimensions important to community engagement, project development, project implementation and interpretation of results.\* They also take time to self-evaluate on behaviors toward academic and non-academic research partners and research subjects.
  - A lack of cultural competency can result in biases informing the interpretation of results, ignoring the knowledge and expertise of community members, and possibly harming a community that is part of a research project\*\*\*

# Cultural Competency Statements

- The Cultural Competency Statement
  - 2-pages
  - Discuss your research team's perspective(s) on equity in knowledge production, as it relates to this project, especially in the context of doing research with and/or about marginalized communities. How does your team situate your research work in non-academic (policy, cultural, public, etc.) domains?
  - Describe your research team's approach and practices, related to this project, to support self-evaluation and self-critique, the ways the team examines your beliefs and cultural identities, and how these relate to your work proposed here.
  - How does your research team cultivate supportive and equitable relationships with academic and non-academic research partners and research subjects, particularly considering potential power dynamics? Describe your team's specific approach, actions, and accountability measures. What are your team's practices to protect against harmful and/or extractive relationships as it relates to this project?



# Contracting

- Contracts – not grants
- Required by H&S code to look for expertise in UC/CSUs
  - **Principal Investigators must come from UC/CSU**
  - 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
  - Inter-agency agreement with UC/CSU
    - 25% overhead rate (see FAQ for details)

# Project Background

- CARB Air Toxics Program
  - Identification and control of air toxic substances
  - Public notification, risk reduction
  - Addressing health impacts
- Related legislation
  - AB 1807
  - AB 2588, Hot Spots
  - AB 617 Community Air Protection Program
- 30,000 facilities reduced toxic emissions
- 80% reduction in cancer risk since 1990
- Localized sources persist, impact specific communities
- Toxics a high priority
  - Metals, metal processing facilities and commercial sources
  - Some sources uncontrolled
- Metals of concern
  - Hexavalent chromium, lead, cobalt, nickel, copper, arsenic, cadmium
- Concerns from communities

# Project Motivation and Objective

- Explore strategies over the next few years
- Elevate community concerns, leverage community lived experience and expertise
- Objective
  - Fund community engagement project with interested community
  - Compile literature review, public comments, past successes in white paper
  - Create a research roadmap
    - Based on lived-experience, concerns, suggested research strategies



# Project Tasks

- Task 1: White Paper
  - Literature review
    - Toxic emissions from metal processing facilities and area sources, exposure, monitoring capability, health risks, etc.
  - Compilation of prior public comments
    - Concerns on exposure, sources, etc.
  - Past successes
    - Past community engagement efforts
    - Mitigation strategies implemented
    - Outcomes

# Project Tasks

- Task 2: Identify Interested Community
  - Work with AB 617, Air Toxics Program staff
  - Reach out to communities impacted by metal processing emissions
  - Ideally, submit a pre-proposal with an established community partner
  - Consult air district

# Project Tasks

- Task 3: Community Engagement Plan
  - Propose community engagement plan
    - Outreach methods
    - Meeting frequency/schedule
    - Meeting accessibility, transportation accessibility, recordings, comments provided offline
    - Language justice and accessibility
    - Facilitation methods
    - How are you collecting input? Meaningful participation and engagement
    - Plan should be reviewed and approved by the community before proceeding, include time for this review
    - Documentation methods, progress and interim reports



# Project Tasks

- Task 4: Develop Research Priorities
  - Consider sources of concern, emissions activity, community observations, activity patterns, research/information gaps identified in literature review
  - Short and long-term priorities and strategies
  - Equity implications
- Task 5 Community-Centric Research Roadmap
  - Combine tasks 1, 3 and 4
  - Recommendations for future strategies should combine existing air toxics control and mitigation strategies with on-the-ground knowledge
- Task 6 Final Report Dissemination
  - Disseminate community-centric research roadmap to all relevant parties

# Deliverables

- At pre-proposal stage
  - Pre-proposal using template, informed by SOW, scoring criteria, including relevant prior community engagement experience and including cultural competency/humility statement
- Beginning of contract
  - Implicit bias, or similar, training
  - Plain language outreach materials
- During contract
  - Quarterly progress reports and conference calls
  - Consultation calls with CARB and stakeholders
  - Draft white paper
  - Draft community engagement plan, reviewed and approved by community

# Deliverables

- Prior to contract close
  - Draft final report:
    - White paper
    - Final community engagement plan and summary of engagement and outreach activities
    - Community-reviewed, community-centric research roadmap including research priority list and policy recommendations
    - Plain language summary
    - Equity implications section
  - Plain-language outreach deliverables
  - Final report and virtual or in-person seminar