

Grant Application Submission Notification Memo

TO: **Office of the City Council** | Jennifer Bruno, Taylor Hill, Sylvia Richards, Linda Sanchez, Lehua Weaver, Nick Tarbet
Office of the Mayor | Erin Mendenhall, Rachel Otto, Jill Love
Department of Finance | Mary Beth Thompson, Amy Dorsey, Randy Hillier
Office of the City Attorney | Jaysen Oldroyd, SLCRecorder@slcgov.com Katherine Lewis, Scott Fisher, Tina Orme

FROM: Annie Christensen

DATE: December 4, 2024

SUBJECT: **Leading the Way: Developing Low-Carbon Transportation Materials for Salt Lake City**

FUNDING AGENCIES:	Department of Transportation
GRANT PROGRAM:	Low Carbon Transportation Materials Grant Program Grant # 693JJ325NF00002
REQUESTED GRANT AMOUNT:	\$19,119,105
DEPARTMENT:	Engineering
COLLABORATING AGENCIES:	Common Ground Institute, University of Maryland- College Park, University of Utah, UDOT
DATE SUBMITTED:	11/25/24

SPECIFICS:

- ☐ Equipment/Supplies Only
- ☒ Technical Assistance
- ☒ Provides 3 Hourly Positions
- ☒ Existing ☒ New ☐ Overtime ☐ Requires Funding After Grant

Explanation: Please see below

☐ Match Required None. ☐ In-Kind Services and ☐ Cash

GRANT DETAILS:

Salt Lake City is requesting \$19,119,104 from the Federal Highway Administration (FHWA) Low-Carbon Transportation Materials (LCTM) program to support Salt Lake City's commitment to advancing efforts to mainstream use of low-carbon construction materials (LCTMs) in Utah. Our objective is to advance the comprehensive utilization of construction materials, products, and treatments that have substantially lower levels of embodied carbon associated with the production stage as compared to the estimated industry averages of similar materials or products.

The funding requested in this application will advance the sustainability of federal-aid-eligible construction in Salt Lake City by pursuing the Project Objectives shown in Figure 1-1. In practice, key activities supported by this funding may include:

- Optimizing high reclaimed asphalt pavement (RAP) and concrete mixes; using rejuvenating agents, crumb rubber modifiers, reducing GHG emissions by as much as 30% by increasing RAP to 30-50%;
- Improving chemical warm mix asphalt, the use of supplementary cementitious materials, and blended cement with up to 15% limestone addition;
- Identifying opportunities for low carbon in steel, concrete, and cement applications;
- Reviewing and incorporating applications for glass and recycled plastics in mixes to reduce environmental impacts; and
- Adopting materials and products with lower embodied GHG emissions in road construction projects.

Budget Details:

Salt Lake City Corporation Personnel total \$2,581,607 for 2025 - 2031:

Sustainability Program Manager, 1.0 FTE (New Hire)

Engineering Project Manager, 1.0 FTE (New Hire)

Grants and Finance Manager, 0.375 FTE (Existing personnel)

Summary of human resources, equipment, travel and supplies total and average per year

Expected Outcomes:		SLC will build a team of internal and external people. Internal staff includes an LCTM program manager, contract admin, sustainability engineer, procuremer					
		Total	Average/year 2025 to 2031	FTE/year	Amount	%	
	Agency hours	12,480	2,080.00	2.38	\$ 2,581,607	13.5%	
	Consultant staff hours	14,865	2,477.50	1.19	\$ 3,872,506	20.3%	
	University staff hours	13,690	2,281.67	1.10	\$ 2,354,990	12.3%	
	Equipment \$	\$1,775,000	295,833		\$ 1,775,000	9.3%	
	IT-Support\$	\$2,115,000	352,500		\$ 2,115,000	11.1%	
	Travel and supplies \$	\$180,000	30,000		\$ 180,000	0.9%	
	Incentive/Delta	\$6,240,000	1,040,000		\$ 6,240,000	32.6%	
					\$ 19,119,104		