

# 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**

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**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)

<b>Summary of human resources, equipment, travel and supplies total and average per year</b>						
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	%	
<b>Agency hours</b>	<b>12,480</b>	<b>2,080.00</b>	2.38	\$ 2,581,607	13.5%	
<b>Consultant staff hours</b>	<b>14,865</b>	<b>2,477.50</b>	1.19	\$ 3,872,506	20.3%	
<b>University staff hours</b>	<b>13,690</b>	<b>2,281.67</b>	1.10	\$ 2,354,990	12.3%	
<b>Equipment \$</b>	<b>\$1,775,000</b>	<b>295,833</b>		\$ 1,775,000	9.3%	
<b>IT-Support\$</b>	<b>\$2,115,000</b>	<b>352,500</b>		\$ 2,115,000	11.1%	
<b>Travel and supplies \$</b>	<b>\$180,000</b>	<b>30,000</b>		\$ 180,000	0.9%	
<b>Incentive/Delta</b>	<b>\$6,240,000</b>	<b>1,040,000</b>		\$ 6,240,000	32.6%	
				\$ 19,119,104		