



UNIVERSITYTRANSPORTATIONCENTER
FOR UNDERGROUND TRANSPORTATION INFRASTRUCTURE

ANNUAL PERFORMANCE INDICATORS – YEAR 4

Submitted to

*United States Department of Transportation (USDOT), Office of the Assistant Secretary for
Research and Technology (OST-R)*

Federal Grant number: 69A3551747118

**Project Title: US DOT Tier 1 University Transportation Center for Underground
Transportation Infrastructure (UTC-UTI)**

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Recipient Organization: Colorado School of Mines, 1500 Illinois St., Golden CO 80401

Project/Grant Period: November 2016 – September 2022

Reporting Period: October 1, 2019 – September 30, 2020

Report Frequency: Annual

Signature:



University Transportation Centers Program Performance Indicators				
UTC Name	University Transportation Center for Underground Transportation Infrastructure			
University	Colorado School of Mines			
Grant #	69A3551747118			
Reporting Period	9/1/2019 - 9/30/2020			
Performance Indicator	Consortium	Consortium Member 1	Consortium Member 2	Consortium Member 3
	Total	CSM	CSULA	Lehigh
1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.				
Undergraduate courses	20	5	10	5
Graduate courses	15	10	2	3
2. Number of students participating in transportation research projects during the reporting period funded by this grant.				
Undergraduate students in research	10	1	7	2
Graduate students in research	22	8	11	3
3. Number of transportation-related advanced degree programs that utilize the grant funds during the period to support graduate students.				
Masters level programs	10	6	3	1
Doctoral level programs	9	8	0	1
4. Number of of students supported by this grant during the reporting period.			0	
Undergraduate degrees	2	1	1	0
Masters degrees	9	0	8	1
Doctoral degrees	11	8	0	3
5. Number of students supported by this grant who received degrees during the reporting period.	0			
Undergraduate degrees	1	0	1	0
Masters degrees	4	0	3	1
Doctoral degrees	2	2	0	0
6. Number and total dollar value of research projects selected for funding during the reporting period using UTC grant funds (Federal and/or recipient) that you consider to be applied and advanced research.				
Number of applied research projects	10	4	4	2
Dollar value of applied research projects	\$ 774,641	\$ 396,452	\$ 225,000.00	\$ 153,189
Number of advanced research projects	7	6	0	1
Dollar value of advanced research projects	\$ 676,488	\$ 594,678	\$ -	\$ 81,810

UNIVERSITY TRANSPORTATION CENTERS - SPECIFIC INDICATORS					
UTC Name	University Transportation Center for Underground Transportation Infrastructure (UTC-UTI)				
University	Colorado School of Mines				
Grant No.	69A3551747118				
Reporting Period	10/1/2019 - 9/30/2020				
Category	Description of Indicator	Consortium	Consortium Member 1	Consortium Member 2	Consortium Member 3
		Total	CSM	CSULA	Lehigh
1. Research Capability: UTC-UTI will measure the effectiveness of our research activities by the number of conference presentations and peer-reviewed publications as well as by the type and amount of external support for research.	1a. No. of presentations at conferences on UTC findings	26	11	6	9
	1b. No. of peer-reviewed publications submitted based on outcomes of UTC funded projects	28	16	7	5
	1c. No. of peer-reviewed publications accepted/published	22	15	5	2
Category	Description of Indicator	Consortium	Consortium Member 1	Consortium Member 2	Consortium Member 3
		Total	CSM	CSULA	Lehigh
2. Leadership: UTC-UTI will measure leadership success by the number of peer-reviewed articles published, the number of students we have mentored that are in transportation workforce in various private and public sectors, and the number of conferences and transportation meetings in which we have disseminated knowledge.	2a. Attendance at summits, conferences, seminars, workshops	20	9	7	4
	2b. No. of peer-reviewed conference papers	7	5	2	0
	2c. No. of peer-reviewed archival journal publications	7	4	1	2
	2d. No. of TRB committees membership and leadership roles	10	3	7	0
	2f. Other leadership in transportation organizations (editorial boards, expert panels)	7	1	4	2
			12		
Category	Description of Indicator	Consortium	Consortium Member 1	Consortium Member 2	Consortium Member 3
		Total	CSM	CSULA	Lehigh
3. Education and Workforce Development: UTC-UTI will measure education and workforce development success by the number of students involved in transportation education, research and in the transportation workforce upon graduation.	3a. No. of students receiving degrees from consortium universities	5	2	2	1
	3b. No. of continuing education credits awarded in transportation-related topics from consortium universities	130	130	0	0
	3c. No. of students attending regional and national workshops and conferences	46	32	5	9
	3d. No. of students working in internships or co-op learning opportunities	3	2	1	0
	3e. No. of students enrolled in transportation courses	1037	315	515	207
	3f. No. of students employed in public or private sector transportation jobs upon their graduation	3	2	1	0
	3g. No. of transportation-related advanced degree programs that utilize grant funds to support graduate students at the masters level	9	6	2	1
	3h. No. of transportation-related advanced degree programs that utilize grant funds to support graduate students at the doctoral level	9	8	0	1

Category	Description of Indicator	Consortium	Consortium Member 1	Consortium Member 2	Consortium Member 3
		Total	CSM	CSULA	Lehigh
4. Technology Transfer: UTC-UTI will measure technology transfer success by the scope and breadth of dissemination of our research through outreach activities, publications and social media.	4a. UTC-UTI websites that track user preferences and actions with the website	2			
	4b. Report on attendance – by type of employer – at the annual transportation conference	Univ.: 0, Industry: 0			
	4c. Conduct surveys of the transportation conference attendees regarding their use of UTC-UTI studies (and other sponsored work)	UTC-UTI workshops, short courses and webinars continue to attract participation from industry and state DOT.			
	4d. Track the no. of peer-reviewed articles and research reports submitted for publication	28	18	4	6
	4e. Track the no. of patent filings	0	0	0	0
	4f. No. of other social media recordings (e.g. Twitter followers)	In Zenodo, UTC-UTI reports and publications have been viewed 960 times and downloaded 3502 times since the start of the center.			
Category	Description of Indicator	Consortium	Consortium Member 1	Consortium Member 2	Consortium Member 3
		Total	CSM	CSULA	Lehigh
5: Collaboration: UTC-UTI will measure collaboration success by the number, types and products/results of partnerships.	5a. No. of papers published from research collaborations	40	20	5	15
	5b. No. of conference presentations made from collaborative efforts	19	11	5	3
	5c. Participants from universities, public agencies, and private firms at the regional transportation summit	0	0	0	0
	5d. No. of collaborative training programs established	1	1	0	0
	5e. No. of student interns in these collaborative programs	1	0	1	0