



Part II - UTC Specific Indicators

University: National University Rail (NURail) Center

Grant #: DTRT13-G-UTC52

Reporting Period: October 1, 2018 - September 30, 2019

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	UKY	UTK
Research Capability							
1	Number of papers on NURail sponsored research published in peer-reviewed journals or industry publications:	13	5	1	6	1	
2	Number of publications in academic and industry conference proceedings	20	11	1	2	6	
3	Number of presentations at academic and industry conferences and workshops	29	13	1	8	7	
4	Number of NURail sponsored theses or dissertations at the MS and PhD levels.	-	-	-	-	-	-
a	Number of MS theses	3	1	1	0	1	
b	Number of PhD dissertations	6	3	0	1	1	1
5	Number of NURail final reports issued during the grant year	2	1	0	0		1
6	Number of citations of each of the above	0	0	0	0		
7	Number of research tools (lab equipment, models, software, test processes, etc.) developed as part of NURail sponsored research	3	0	1	1	1	
Leadership							
1	Number of rail-related professional and service organization committees that NURail faculty researchers participate in or lead.	-	-	-	-	-	-

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	UKY	UTK
a	Number participated in	34	19	0	7	1	7
b	Number led	7	5	0	2		0
2	Number of research and educational colloquia and workshops organized	8	4	0	2	1	1
3	Number of rail sessions developed and led at major transportation and rail industry conferences	10	5	1	2		2
4	Number of faculty researchers in leadership positions in:	–	–	–	–	–	–
a	Professional societies	2	0	1	1		
b	Advisory committees	5	3	1	1		
c	Conference Organizing Committees	24	21	0	2	1	
5	Number of relevant awards received during the grant year	4	0	0	1	3	
6	Number of NURail professionals participating in short-term and long-range transportation planning	2	0	0	1		1
7	Number of other activities promoting rail academic research and education	15	10	0	2		3
Education & Workforce Development							
1	Number of rail courses offered (not necessarily NURail stimulated).	–	–	–	–	–	–
a	On-Campus	20	12	0	5	1	2
b	Distance	12	11	0	0		1
2	Number of rail related classes developed or modified as a result of NURail funding.	–	–	–	–	–	–
a	On-Campus	2	0	0	0	0	2
b	Distance	2	0	0	1	0	1
3	Number of students participating in course offerings (both on-campus and on-line).	–	–	–	–	–	–
a	On-Campus	276	162	0	59	43	12
b	Distance	69	47	0	0		22
4	Number of internships and full time positions secured in the industry and government during the grant year.	–	–	–	–	–	–
a	Number of internships				6		

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	UKY	UTK
	Railroads	6	2		2	2	
	Consulting firms	2			2		
	Government	1			0	1	
	Other	2			2		
	TOTAL:	11	2	0	6	3	0
b	Number of full time positions						
	Railroads		1	0			
	Consulting firms		5	0		2	
	Government			0			
	Other		4	0			
	TOTAL:	12	10	0	0	2	0
5	Number of NURail sponsored students participating in academic or industry conferences, workshops, or symposia.	-	-	-	-	-	-
a	Number of students	0	0	0	0		0
	TRB	13	10		1	2	
	JRC	3	3		0		
	NURail Annual Meeting	7	5		0	2	
	AREMA	19	14		2	3	
	INFORMS	7	6		1		
	AAR Research Review	8	8				
	AREMA C-16 Meeting	4	4				
	IHHA	3	3				
	IAROR	5	5				
	TOTAL:	69					
6	Number of K-12 outreach activities and student participants the grant has helped to support	0					
	K-12 activities	5	2		3		
	K-12 participants	12,081	12,032		49		
7	Number of initiatives / activities related to training / workforce development (live and online)	5	3	0	2	0	0
Tech Transfer							

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	UKY	UTK
1	Technology transfer focused activities (articles, seminars, posters, workshops, etc.)	2	1	0	1	0	0
2	Professional development participation (meetings, briefings, committees)	12	0	0	12	0	0
3	New Technologies / Innovation (applications, concepts, technologies, etc. adopted by the rail industry, licenses, cooperative research agreements or creation of new business entities)	1	0	0	1	0	0
Collaboration							
1	Number of joint research proposals	10	5	0	5	0	0
2	Number of joint papers	2	1	0	1	0	0
3	Number of joint presentations	2	1	0	1	0	0
4	Number of jointly developed or taught courses	0	0	0	0	0	0
5	Number of jointly organized seminars, workshops, or conferences	0	0	0	0	0	0
With Outside Organizations							
1	Number of organizations collaborated with during the grant year	26	0	0	22	1	3
2	Number of joint research proposals	3	0	0	0	0	3
3	Number of joint papers	0	0	0	0	0	
4	Number of joint presentations	0	0	0	0	0	
5	Number of jointly developed or taught courses	5	3	0	1	1	
6	Number of jointly organized seminars, workshops, or conferences	1	0	0	0	0	1