



Part II - UTC Specific Indicators

University: National University Rail (NURail) Center

Grant #: DTRT13-G-UTC52

Reporting Period: October 1, 2017 - September 30, 2018

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	MIT	Rose - Hulman	UKY	UTK
Research Capability									
1	Number of papers on NURail sponsored research published in peer-reviewed journals or industry publications:	12	7		3			1	1
2	Number of publications in academic and industry conference proceedings	23	13		7			1	2
3	Number of presentations at academic and industry conferences and workshops	37	27		5			1	4
4	Number of NURail sponsored theses or dissertations at the MS and PhD levels.	-	-	-	-			-	-
a	Number of MS theses	3	0	1	1			1	
b	Number of PhD dissertations	1	0						1
5	Number of NURail final reports issued during the grant year	12	1	1	2	1	1	5	1
6	Number of citations of each of the above	0	0						
7	Number of research tools (lab equipment, models, software, test processes, etc.) developed as part of NURail sponsored research	4	0	1	1			1	1

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	MIT	Rose - Hulman	UKY	UTK
Leadership									
1	Number of rail-related professional and service organization committees that NURail faculty researchers participate in or lead.	-	-	-	-			-	-
a	Number participated in	35	19	2	7			1	6
b	Number led	8	5	1	2				
2	Number of research and educational colloquia and workshops organized	14	4	8	2				
3	Number of rail sessions developed and led at major transportation and rail industry conferences	7	5		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	1	2				
5	Number of relevant awards received during the grant year	3	0		1			2	
6	Number of NURail professionals participating in short-term and long-range transportation planning	3	0	1	1				1
7	Number of other activities promoting rail academic research and education	13	10		3				
Education & Workforce Development									
1	Number of rail courses offered (not necessarily NURail stimulated).	-	-	-	-			-	-
a	On-Campus	19	12		5		1	1	
b	Distance	12	11		1				
2	Number of rail related classes developed or modified as a result of NURail funding.	-	-	-	-			-	-
a	On-Campus	0	0						

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	MIT	Rose - Hulman	UKY	UTK
b	Distance	1	0		1				
3	Number of students participating in course offerings (both on-campus and on-line).	-	-	-	-			-	-
a	On-Campus	328	203		82		6	37	
b	Distance	38	34		4				
4	Number of internships and full time positions secured in the industry and government during the grant year.	-	-	-	-			-	-
a	Number of internships								
	Railroads	10	2		7			1	
	Consulting firms	1	1						
	Government								
	Other	2			2				
	TOTAL:	250	240		9			1	
b	Number of full time positions								
	Railroads	3	1		2				
	Consulting firms	6	4		2				
	Government								
	Other								
	TOTAL:	9	5		4				
5	Number of NURail sponsored students participating in academic or industry conferences, workshops, or symposia.	-	-	-	-			-	-
	TRB	20	15		1			2	2
	JRC	11	8		1			2	
	AREMA	20	16		2			2	
	AAR Research Review	8	8						
	INFORMS	9	8		1				
	NURail Annual Meeting/Summerail	6	3					2	1
	Int'l Crosstie Symposium	8	8						
	APTA	1	1						
a	TOTAL number of students	83	67	0	5			8	3

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	MIT	Rose - Hulman	UKY	UTK
6	Number of K-12 outreach activities and student participants the grant has helped to support								
	Summer Youth Program in Rail and Intermodal	18			18				
	Engineering Open House	12000	12,000						
	STEAM Summer Camp	11	11						
	Hanson Springfield Minority Visit	35	35						
a	TOTAL number of students	12064							
b	TOTAL number of activities	4	3		1				
7	Number of initiatives / activities related to training / workforce development (live and online)								
	REES		1		1				
	Midwest Rail Conference				1				
	Rail Day/Expo				1				
	Railroad Engineering Short Course		1						
	Hay Seminars		8						
	Rail workshops								13
a	TOTAL number of activities	26	10		3				13
Tech Transfer									
1	Technology transfer focused activities (articles, seminars, posters, workshops, etc.)	6	4	1	1				
2	Professional development participation (meetings, briefings, committees)	7	0		6				1
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		1				

Performance Indicators		Consortium Total	UIUC	UIC	Michigan Tech	MIT	Rose - Hulman	UKY	UTK
Collaboration									
1	Number of joint research proposals	4	3		1				
2	Number of joint papers	2	1		1				
3	Number of joint presentations	1	1						
4	Number of jointly developed or taught courses	1	0		1				
5	Number of jointly organized seminars, workshops, or conferences	2	2						
With Outside Organizations									
1	Number of organizations collaborated with during the grant year	22	7		9			3	3
2	Number of joint research proposals	3	3						
3	Number of joint papers	3	0					2	1
4	Number of joint presentations	4	0					2	2
5	Number of jointly developed or taught courses	3	3						
6	Number of jointly organized seminars, workshops, or conferences	5	4		1				