



Part II - UTC Specific Indicators

University: National University Rail (NURail) Center

Grant #: DTRT13-G-UTC52

Reporting Period: October 1, 2016 - September 30, 2017

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
Research Capability									
1	Number of papers on NURail sponsored research published in peer-reviewed journals or industry publications:	13	8			1	3	1	
2	Number of publications in academic and industry conference proceedings	29	18	2		5	3	1	
3	Number of presentations at academic and industry conferences and workshops	28	9	1		11	7		
4	Number of NURail sponsored theses or dissertations at the MS and PhD levels.	-	-	-	-	-	-	-	-
a	Number of MS theses	4			2	1	1		
b	Number of PhD dissertations	4	2	1				1	
5	Number of NURail final reports issued during the grant year	24	8	5	1	4	3	2	1
6	Number of citations of each of the above								
7	Number of research tools (lab equipment, models, software, test processes, etc.) developed as part of NURail sponsored research	5		1		1	2	1	
Leadership									

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
1	Number of rail-related professional and service organization committees that NURail faculty researchers participate in or lead.	-	-	-	-	-	-	-	-
a	Number participated in	35	19	1		7	4	4	
b	Number led	10	5	1		3		1	
2	Number of research and educational colloquia and workshops organized	7	4			2		1	
3	Number of rail sessions developed and led at major transportation and rail industry conferences	6	5			1			
4	Number of faculty researchers in leadership positions in:	-	-	-	-	-	-	-	-
a	Professional societies	4		3		1			
b	Advisory committees	6	3	1			1	1	
c	Conference Organizing Committees	24	21			2		1	
5	Number of relevant awards received during the grant year	4				3	1		
6	Number of NURail professionals participating in short-term and long-range transportation planning	3		1		1		1	
7	Number of other activities promoting rail academic research and education	14	10			3		1	
Education & Workforce Development									
1	Number of rail courses offered (not necessarily NURail stimulated).	-	-	-	-	-	-	-	-
a	On-Campus	21	13	1		5	1	1	
b	Distance	13	12	0				1	
2	Number of rail related classes developed or modified as a result of NURail funding.	-	-	-	-	-	-	-	-
a	On-Campus								
b	Distance								

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
3	Number of students participating in course offerings (both on-campus and on-line).	-	-	-	-	-	-	-	-
a	On-Campus	403	232			136	32	3	
b	Distance	38	24					14	
4	Number of internships and full time positions secured in the industry and government during the grant year.	-	-	-	-	-	-	-	-
a	Number of internships								
	Railroads	7	2			5			
	Consulting firms	2				2			
	Government								
	Other	4				4			
	TOTAL:	13	2			11			
b	Number of full time positions								
	Railroads	8	4			4			
	Consulting firms	7	5			2			
	Government								
	Other								
	TOTAL:	15	9			6			
5	Number of NURail sponsored students participating in academic or industry conferences, workshops, or symposia.	-	-	-	-	-	-	-	-
	Total Number of Students	88	65	1		7	11	4	
a	TRB	16	5			1	8	2	
	JRC	8	5			2	1		
	NURail Annual Meeting	19	15	1		2		1	
	AREMA	18	15			1	2		
	IHHA	4	4						
	INFORMS	9	8			1			
	Summerail	1						1	

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
	AAR Research Reivew	8	8						
	IAROR	5	5						
6	Number of K-12 outreach activities and student participants the grant has helped to support	3	2			1			
	Total K-12 participants	12049							
	UIUC Engineering Open House		12000						
	Hanson Springfield Minority Visit		35						
	Summer Youth Program in Rail and Intermodal Transportation					14			
7	Number of initiatives / activities related to training / workforce development (live and online)	13	9			4			
	Hay Seminar participants (7 total)		833						
	Railroad Engineering Short Course		17						
	Passenger Railway Engineering Education Symposium (p-REES) attendees		15			1			
	Midwest Rail Conference attendees					225			
	Railroad night					80			
	Rail Day and Student Expo					300			
Tech Transfer									
1	Technology transfer focused activities (articles, seminars, posters, workshops, etc.)	28	4	2		3		19	
2	Professional development participation (meetings, briefings, committees)	10				7	2	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				1			

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
Collaboration									
1	Number of joint research proposals	2				1	1		
	FRA - BAA 2017: IVAA at Grade Crossing, Myounghoon					1			
	NS						1		
2	Number of joint papers	4	1				1	2	
3	Number of joint presentations	2					2		
4	Number of jointly developed or taught courses								
5	Number of jointly organized seminars, workshops, or conferences	2							
	p-REES (all partners)								
	Midwest Rail Conference (all partners)								
With Outside Organizations									
1	Number of organizations collaborated with during the grant year	18	7			7	2	2	
2	Number of joint research proposals	1	1						
3	Number of joint papers	4					2	2	
4	Number of joint presentations	2					2		
5	Number of jointly developed or taught courses	3	3						
6	Number of jointly organized seminars, workshops, or conferences	5	4			1			