



Part II - UTC Specific Indicators

UTC Name: National University Rail (NURail) Center

Grant #: DTRT13-G-UTC52

Reporting Period: October 1, 2015 - September 30, 2016

Performance Indicators		Consortium Total	University Name						
			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:	10	1	4	0	0	5	0	0
2	Number of publications in academic and industry conference proceedings	12	2	1	0	3	6	0	0
3	Number of presentations at academic and industry conferences and workshops	12	3	3	0	0	5	0	1
4	Number of NURail sponsored theses or dissertations at the MS and PhD levels.	–	–	–	–	–	–	–	–
a	Number of MS theses	2	0	1	0	1		0	0
b	Number of PhD dissertations	5	0	4	0	0	1	0	0
5	Number of NURail final reports issued during the grant year	22	1	11	0	0	10	0	0
6	Number of citations of each of the above	9	0	9	0	0	0	0	0
7	Number of research tools (lab equipment, models, software, test processes, etc.) developed as part of NURail sponsored research	13	0	9	0	1	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	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
a	Number participated in	37	19	1	0	7	3	6	1
b	Number led	10	5	0	0	3		1	1
2	Number of research and educational colloquia and workshops organized	8	4	0	0	2	1	1	0
3	Number of rail sessions developed and led at major transportation and rail industry conferences	11	5	0	0	3		3	0
4	Number of faculty researchers in leadership positions in:	–	–	–	–	–	–	–	–
a	Professional societies	6	0	2	0	2	2	0	0
b	Advisory committees	7	3	2	0	0	1	1	0
c	Conference Organizing Committees	21	16	2	0	2	1	0	0
5	Number of relevant awards received during the grant year	2	0	0	0	2		0	0
6	Number of NURail professionals participating in short-term and long-range transportation planning	6	0	4	0	1	1	0	0
7	Number of other activities promoting rail academic research and education	16	10	0	0	4		0	2
Education & Workforce Development									
1	Number of rail courses offered (not necessarily NURail stimulated).	–	–	–	–	–	–	–	–
a	On-Campus	20	12	0	0	5	2	0	1
b	Distance	13	12	0	0	0		1	0
2	Number of rail related classes developed or modified as a result of NURail funding.	–	–	–	–	–	–	–	–
a	On-Campus	3	0	0	0	1	1	0	1
b	Distance	0	0	0	0	0		0	0
3	Number of students participating in course offerings (both on-campus and on-line).	–	–	–	–	–	–	–	–
a	On-Campus	475	260	0	0	156	35	0	24
b	Distance	47	34	0	0	0	0	13	0
4	Number of internships and full time positions secured in the industry and government during the grant year.	–	–	–	–	–	–	–	–

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
a	Number of internships								
	Class 1 Railroads	12	3			4	1		4
	Railroads, not Class 1	2	1				1		
	Consulting firms	9	1			8			
	Government	0	0						
	Other	5		3		2			
	TOTAL:	28	5	3	0	14	2	0	4
b	Number of full time positions								
	Class 1 Railroads	7	0			1			6
	Railroads, not Class 1	2	0						2
	Consulting firms	9	4	1		1	1		2
	Government	0	0						
	Other	1	0	1					
	TOTAL:	19	4	2	0	2	1	0	10
5	Number of NURail sponsored students participating in academic or industry conferences, workshops, or symposia.	-	-	-	-	-	-	-	-
a	Number of students	59	22	10	0	12	15	0	0
	TRB	12	4	1		1	6		
	JRC	10	4	3		1	2		
	NURail Annual Meeting	11	5	4		1	1		
	AREMA	15	5	2		2	6		
	WCRR	0	0	0					
	INFORMS	5	4	0		1			
	Summerail	0	0	0					
	APTA	0	0	0					
	Michigan Rail Conference	6				6			
6	Number of K-12 outreach activities and student participants the grant has helped to support	7	4	0	0	1	0	0	2
	Total K-12 participants	12196							
	RHIT AREMA Middle School STEM	7							7
	RHIT Girl Scouts: Discovering STEM	100							100

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose-Hulman
	Summer Youth Program in Rail and Intermodal Transportation	8				8			
	Science, Technology, Engineering, Art and Math Summer Camp	21	21						
	Engineering Open House	12000	12,000						
	Hanson Springfield Minority Visit	35	35						
	STEAM Summer Camp (K-12 Outreach)	25	25						
7	Number of initiatives / activities related to training / workforce development (live and online)	13	10	0	0	3	0	0	0
	Hay Seminars (8 total)	939	939						
	Railroad Engineering Short Course	17	17						
	Passenger Railway Engineering Education Symposium	15	15						
Tech Transfer									
1	Technology transfer focused activities (articles, seminars, posters, workshops, etc.)	30	4	14	0	1	2	9	0
2	Professional development participation (meetings, briefings, committees)	11	0	0	0	6	5	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)	3	0	2	0	1	0	0	0
Collaboration									
1	Number of joint research proposals	2	0	0	0	2	0	0	0
2	Number of joint papers	6	1	0	0	1	4	0	0
3	Number of joint presentations	0	0	0	0	0	0	0	0
4	Number of jointly developed or taught courses	0	0	0	0	0	0	0	0
5	Number of jointly organized seminars, workshops, or conferences	1	1	0	0	0	0	0	0
With Outside Organizations									

Performance Indicators		Consortium Total	UIUC	UIC	MIT	Michigan Tech	UKY	UTK	Rose- Hulman
1	Number of organizations collaborated with during the grant year	20	7	0	0	7	4	2	0
2	Number of joint research proposals	1	1	0	0	0	0	0	0
3	Number of joint papers	4	0	0	0	0	4	0	0
4	Number of joint presentations	0	0	0	0	0	0	0	0
5	Number of jointly developed or taught courses	4	3	0	0	0	0	1	0
6	Number of jointly organized seminars, workshops, or conferences	5	4	0	0	1	0	0	0