



UTC Specific Performance Indicators

Research Capability				
1	Number of papers on NURail sponsored research published in peer-reviewed journals or industry publications:			
	Total:	12		
2	Number of publications in academic and industry conference proceedings			
	Total:	37		
3	Number of presentations at academic and industry conferences and workshops			
	Total:	102		
4	Number of NURail sponsored theses or dissertations at the MS and PhD levels.			
A	Number of MS theses			
	Total:	11		
B	Number of PhD dissertations			
	Total:	2		
5	Number of NURail final reports issued during the grant year			
	Total:	1		
6	Number of citations of each of the above			
	Total:	1		
7	Number of research tools (lab equipment, models, software, test processes, etc.) developed as part of NURail sponsored research			
	Total:	4		
Leader-ship				
1	Number of rail-related professional and service organization committees that NURail faculty researchers participate in or lead.			
A	Number participated in			
	Total:	56		
B	Number led			
	Total:	8		
2	Number of research and educational colloquia and workshops organized			
	Total:	9		
3	Number of rail sessions developed and led at major transportation and rail			

	industry conferences			
	Total:	8		
4	Number of faculty researchers in leadership positions in:			
A	Professional societies			
	Total:	7		
B	Advisory committees			
	Total:	7		
C	Conference Organizing Committees			
	Total:	18		
5	Number of relevant awards received during the grant year			
	Total:	4		
6	Number of NURail professionals participating in short-term and long-range transportation planning			
	Total:	10		
7	Number of other activities promoting rail academic research and education			
	Total:	42		
Education & Workforce Development				
1	Number of rail courses offered (not necessarily NURail stimulated).			
A	On-Campus			
	Total:	17		
B	Distance			
	Total:	6		
2	Number of rail related classes developed or modified as a result of NURail funding.			
A	On-Campus			
	Total:	9		
B	Distance			
	Total:	5		
3	Number of students participating in course offerings (both on-campus and on-line).			
A	On-Campus			
	Total:	401		
B	Distance			
	Total:	20		
4	Number of internships and full time positions secured in the industry and government during the grant year.			
A	Number of internships		Org. type (railroad, engineering consulting firm, government, or other)	
	Total:	9	Engineering Consulting firm	
	Total:	5	Government	

		Total:	13	Railroad	
		Total:	11	RR construction/maintenance	
C	Number of full time positions			Org. type (railroad, engineering consulting firm, government, or other)	
		Total:	8	Railroads	
		Total:	12	Engineering Consultant	
		Total:	2	Government	
		Total:	3	Miscellaneous	
5	Number of NURail sponsored students participating in academic or industry conferences, workshops, or symposia.				
A	Number of students				
		Total:	97	AREMA 2013	
		Total:	1	WCRR 2013 (November)	
		Total:	20	RREC 2013 (November)	
		Total:	2	RTD 2013 (October)	
		Total:	9	INFORMS 2013 (October)	
		Total:	7	TRB SummerRail 2013 (August)	
		Total:	10	SNCF Workshop (June)	
		Total:	2	KTH Capacity Workshop (May)	
		Total:	2	IAROR 2013 (May)	
		Total:	3	IHHA 2013 (February)	
		Total:	3	Summerail 2013	
		Total:	4	APTA	
		Total:	24	JRC 2013	
		Total:	33	NURail annual meeting	
		Total:	29	TRB 2013	
6	Number of K-12 outreach activities and student participants the grant has helped to support				# participants
		Total:	6		Total: 5021
7	Number of initiatives / activities related to training / workforce development (live and online).				
		Total:	19		Total: 900
Tech Transfer					
1	Technology transfer focused activities (articles, seminars, posters, workshops, etc.)			Please list and briefly describe any indicators for the three categories.	
		Total:	20		
2	Professional development participation (meetings, briefings, committees)			Please list and briefly describe any indicators for the three categories.	
		Total:	48		
3	New Technologies / Innovation (applications, concepts, technologies, etc. adopted by the rail industry, licenses, cooperative research agreements or creation of new business entities)			Please list and briefly describe any indicators for the three categories.	
		Total:	0		

Collaboration				
1	Number of joint research proposals.		Funding opportunity	NURail Partners
		1	NCRRP Passenger Train Energy Project Proposal	UIUC, KY
		1	FRA-BAA Asset Management Project	UIUC, UIC
		1	UTC Regional Center	Michigan Tech, UIUC, UIC
		1	FRA BAA	UTK, UK
2	Number of joint papers.		Paper title	NURail partner(s) co-author
		1	Railway Engineering Education Symposium (REES) – Universities and Industry Collaborate to Develop Railway Education,	Dick, T.C., McKinney, J.L., Clarke, D.B. (UIUC, RHIT and UTK)
	Total:	1		
3	Number of joint presentations		Presentation title	NURail partner(s) co-presenter
		1	Railway Engineering Education Symposium (REES) – Universities and Industry Collaborate to Develop Railway Education, NURail partners	Lautala, Pasi T., Dick, C.T., and McKinney, J.A. (Michigan Tech, UIUC, RHIT)
	Total:	1		
4	Number of jointly developed or taught courses.		Course name	NURail partner(s) co-developer or co-instructor
	Total:	0		
5	Number of jointly organized seminars, workshops, or conferences.		Seminar, workshop, or conference name	NURail partner(s) co-organizer
		1	JRC 2013	UTK led, other partners assist
		1	SummeRail 2013	UTK and UK
<i>W/outside org.</i>				
1	Number of organizations collaborated with during the grant year			
	Total:	31		
2	Number of joint research proposals			
	Total:	7		
3	Number of joint papers			
	Total:	3		
4	Number of joint presentations			
	Total:	0		
5	Number of jointly developed or taught courses			
	Total:	1		
6	Number of jointly organized seminars, workshops, or conferences			
	Total:	5		