



UTC Specific Indicators

UTC Name: National University Rail (NURail) Center		
Grant #: DTRT12-G-UTC18		
Reporting Period: January 1, 2016 - January 31, 2017		
Performance Indicators		Consortium Total
Research Capability		
1	Number of papers on NURail sponsored research published in peer-reviewed journals or industry publications:	14
2	Number of publications in academic and industry conference proceedings	24
3	Number of presentations at academic and industry conferences and workshops	49
4	Number of NURail sponsored theses or dissertations at the MS and PhD levels.	
<i>a</i>	<i>Number of MS theses</i>	6
<i>b</i>	<i>Number of PhD dissertations</i>	2
5	Number of NURail final reports issued during the grant year	45
6	Number of citations of each of the above	4
7	Number of research tools (lab equipment, models, software, test processes, etc.) developed as part of NURail sponsored research	2
Leadership		
1	Number of rail-related professional and service organization committees that NURail faculty researchers	
<i>a</i>	<i>Number participated in</i>	30
<i>b</i>	<i>Number led</i>	9
2	Number of research and educational colloquia and workshops organized	11
3	Number of rail sessions developed and led at major transportation and rail industry conferences	10
4	Number of faculty researchers in leadership positions in:	
<i>a</i>	<i>Professional societies</i>	6
<i>b</i>	<i>Advisory committees</i>	4
<i>c</i>	<i>Conference Organizing Committees</i>	17
5	Number of relevant awards received during the grant year	6
6	Number of NURail professionals participating in short-term and long-range transportation planning	5
7	Number of other activities promoting rail academic research and education	29
Education & Workforce Development		
1	Number of rail courses offered (not necessarily NURail stimulated).	
<i>a</i>	<i>On-Campus</i>	18

b	<i>Distance</i>	10
2	Number of rail related classes developed or modified as a result of NURail funding.	
a	<i>On-Campus</i>	0
b	<i>Distance</i>	0
3	Number of students participating in course offerings (both on-campus and on-line).	
a	<i>On-Campus</i>	294
b	<i>Distance</i>	37
4	Number of internships and full time positions secured in the industry and government during the grant year.	
a	<i>Number of internships</i>	
	Internships w/Class 1 railroads	8
	Internships w/railroads, but not Class 1	2
	Internships with consulting firms	5
	Internships with Other	8
b	<i>Number of full time positions</i>	
	Full time w/Class 1 railroads	1
	Full time w/railroads, but not Class 1	0
	Full time with consulting firms	10
	Full time with Other	2
5	Number of NURail sponsored students participating in academic or industry conferences, workshops, or symposia.	Total # of students
	TRB	32
	JRC	29
	NURail Annual Meeting	24
	AREMA	59
	WCRR	3
	INFORMS	11
	Summerail	1
	APTA	1
	AAR Research Review	8
	RREC	20
	GLXS	1
6	Number of K-12 outreach activities and student participants the grant has helped to support	state # of students
	Engineering Open House	12,000
	Hanson Springfield Minority Visit	35
	STEAM Summer Camp (K-12 Outreach)	25
	Mentoring to HS students by Prof. Sussman	6
7	Number of initiatives / activities related to training / workforce development (live and online).	# of participants
	Hay Seminars (9 total)	1685
	Railroad Engineering Short Course	17
	Railway Engineering Education Symposium	25
	workshops on rail topics	20
	JRC, ASCE RTC, TRB Rail Committees AR030/AR040, TRAC, SummeRail	6

Tech Transfer

1	Technology transfer focused activities (articles, seminars, posters, workshops, etc.)	16
2	Professional development participation (meetings, briefings, committees)	1
3	New Technologies / Innovation (applications, concepts, technologies, etc. adopted by the rail industry, licenses, cooperative research agreements or creation of new business entities)	0

Collaboration

1	Number of joint research proposals	3
2	Number of joint papers	1
3	Number of joint presentations	1
4	Number of jointly developed or taught courses	0
5	Number of jointly organized seminars, workshops, or conferences	1

Collaboration With Outside Organizations

1	Number of organizations collaborated with during the grant year	17
2	Number of joint research proposals	1
3	Number of joint papers	0
4	Number of joint presentations	0
5	Number of jointly developed or taught courses	3
6	Number of jointly organized seminars, workshops, or conferences	3