

THE UNIVERSITY of TENNESSEE





Lean Enterprise Summer Program DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING



utlean.utk.edu

Lean Enterprise is...





- A comprehensive international experience, with intensive intercultural interaction inside and outside the classroom.
- An opportunity to develop knowledge in Lean with practical applications, through hands on experience in operations problem solving.



What Does It Include?

- Courses
 - Class materials
- Mentorship during the program
- Industrial fieldtrips & transportation to project companies.
- Meals \$400 USD for consumption
 - Card valid as well for grocery shopping
- Lodging 28 nights
- Access to academic and recreational facilities



	Module	Week
•	Fundamentals of Lean Enterprise Systems	1
•	Designing & Modeling of Lean Systems	2&3
•	Analysis of Lean Systems	3 & 4
•	Reliability of Lean Systems	4
•	Project oriented week and presentations	5



Topics

- Fundamentals of Lean Enterprise Systems
 - Introduction to Lean
 - Lean Goals
 - Reduce Lead Time
 - Reduce Variation
 - Change Through People
 - Lean Tools
 - Categories template
 - Tools
- Designing & Modeling of Lean Systems
 - Lean Concepts
 - Toyota Production System
 - Value Stream Mapping
 - Current State
 - Future State
 - Roadmap
 - Lego Simulation
 - A3 forms

- Reliability of Lean Systems
 - DRIVES model
 - Theory of Constraints
 - Quality & Delivery Assessment
 - Project Management
 - Root-Cause Analysis
 - Lean Six-Sigma
 - Releanability
- Analysis of Lean Systems
 - Process simulator (Pro-model)
 Simulation
 - Lean matrix
 - Simulation Towards Lean

General Dates 2015

Monday	/	Tuesday	7	Wednesd	ay	Thursday	Y	Friday		Saturday	/	Sunday	
	29		30		1		2		3		4		5
On-Line ses	sion	On-Line ses	sion	On-Line ses	sion	On-Line ses	sion	Early Check	-In	Check-ir	1	Late Check	-in
								(extra cos	t)				
								Travel Da	y				
	6		7		8		9		10		11		12
Opening Cere	mon	Classrm ses	sion	Classrm ses	sion	Classrm ses	sion	Visit					
		Project		Project (not	all)	Project							
	13		14		15		16		17		18		19
Classrm sess	sion	Classrm ses	sion	Classrm ses	sion	Classrm ses	sion	Visit					
Project		Project		Project		Project							
	20		21		22		23		24		25		26
Classrm sess	sion	Classrm ses	sion	Classrm ses	sion	Classrm ses	sion	Visit					
Project		Project		Project		Project							
	27		28		29		30		31		1		2
Classrm sess	sion	Classrm ses	sion	Project		Presentatio	ons	Presentatic	ons	Check-out (J	UL 4)	Late Check-	-out
				All day		All day		Closure					
Project		Project		All udy		All udy		receptior	า				

• Classes, visits and project visits are subject to change.



Instructors Team



Dr. Rupy Sawhney

MS. Isaac Mitchell



MS. Bharadwaj Venkatesan



MS. Enrique Macias de Anda

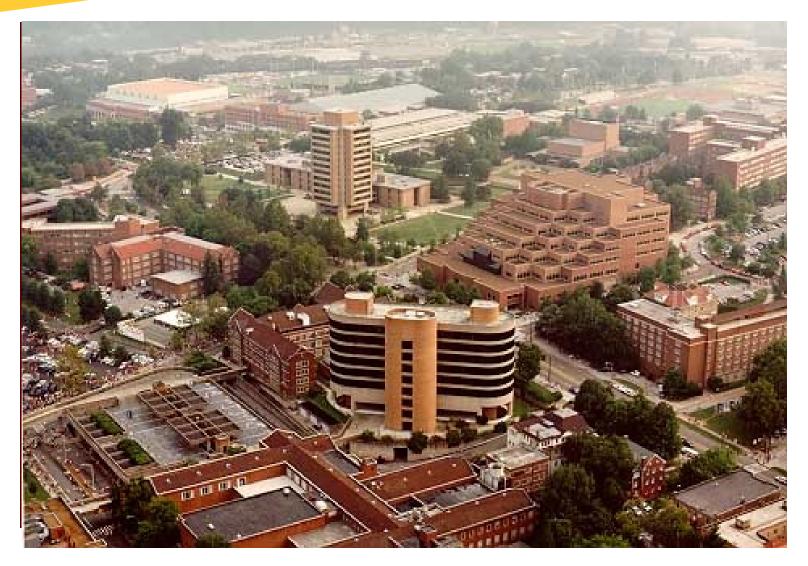
CENTER for INDUSTRIAL SERVICES

Experienced consultants from CIS

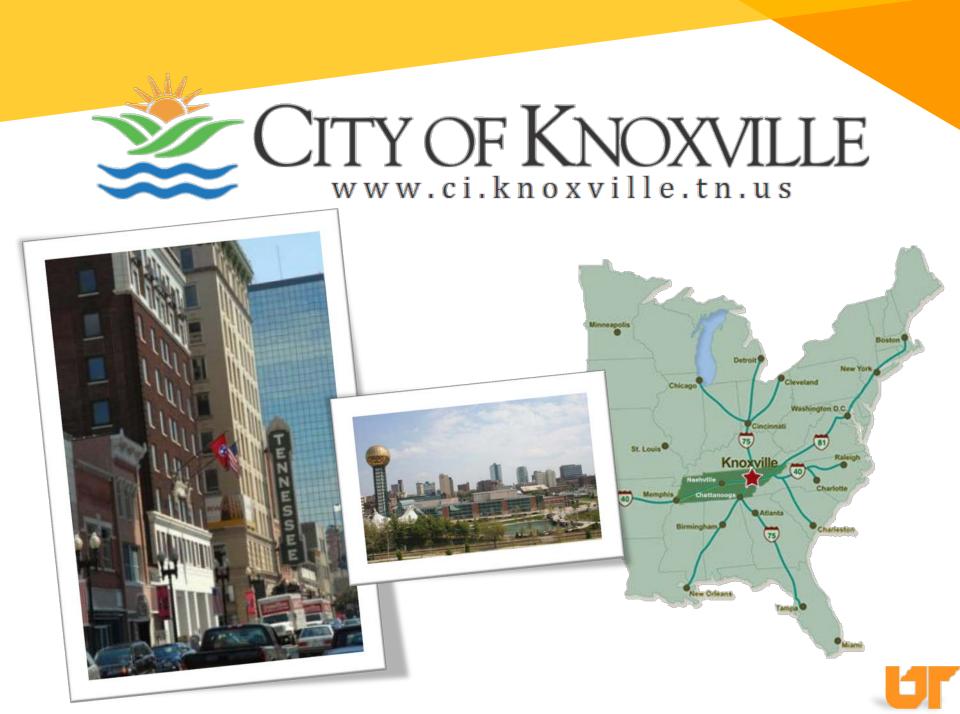


Misty DePriest

University of Tennessee Knoxville campus









McGhee Tyson Airport

What Is Needed For Travel?

- Documents
 - B1/B2 VISA
 - Passport
 - INSURANCE. We suggest Travel Guard <u>http://www.travelguard.com/travelinsurance/internati</u> <u>onal.asp</u>
 - Supporting documents:
 - If available, a letter or any document that proves afiliation as a student at a university.
 - Welcome and customs letters.



U.S. VISAS

U.S. DEPARTMENT OF STATE · BUREAU OF CONSULAR AFFAIRS







Residence Hall

- La

Where to eat

UTVOLUNTEER DINING

(865) 974-4111 www.utdining.com





- TRECS access with ID card.
 - <u>http://recsports.utk.edu/Programs/Facilities/trecs/index.php</u>

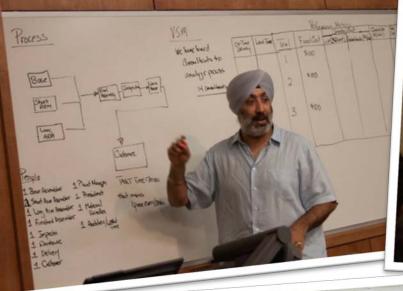


• Library

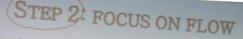




What happened in the past?







- · Line balancing.
- · Work cells.
- Production control.
- Improvements.

Team Leaders 2014

Company	Team Leader	Country		
Children's Hospital	Zhibo Tan (Tina)		★ * <u>*</u>	
RF Solutions (Ten-Tec)	Yuting Li (Ryan)	China	∴ **	
Aqua-Chem	Xiaojuan Zhu (Julia)	-		
Techmer PM	Wolday Abrha	Ethiopia		
Pharma Packaging	Dhanush Agara Mallesh			
Vinylex	Abhishek Chimalapati	India	()	
Carlex	Dinesh Patlolla			
DeRoyal	Vahid Ganji Lisar			
Johnson Matthey	Ali Mohammadhashemi	l no no	ನಾಜವಾಜನಾಜನಾಜನಾಜನಾಜನಾಜನಾಜ ())	
MasterCraft	Mohammad Ali Asudegi	- Iran	నెడానలనజనజనజనలనలనలనలనలనలనలనలన	
Reily Foods	Mostafa Ghafoori Varzaneh	-	~	
Advanced Catalysts	Girish Upreti	Nepal	*	





CENTER for INDUSTRIAL SERVICES

26 students 4[∞] companies 6 projects



Julton

FULTON BELLOWS, LLC



SL TENNESSEE







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Projects 2013



Projects 2014





Facility Tours



10 MILLION











Final Ceremony













light the TORCH

Come to the LEAN **ENTERPRISE SYSTEMS** SUMMER PROGRAM and light up the **TORCH** of your **URE**