Erick C. Jones, Ph.D., P.E., CSSBB
Department of Industrial & Manufacturing Systems Engineering
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1. Education and Employment History

1.1 Education

2003	**Ph.D.**
University of Houston	Industrial Engineering
Concentration:	Engineering Management
Dissertation	*"A Predictive SPC Model for Determining Cognitive Voluntary Turnover before Physical Departure"*
Successfully Defended	May-03
Date Conferred	Aug-03
1996	**Master of Science**
University of Houston	Industrial Engineering
Master's Thesis	*"Turnover of Part-Time Hourly Employees in an Industrial Service Company"*
Date Conferred:	Dec-96
1993	**Bachelor of Science**
Texas A&M University	Industrial Engineering
Date Conferred:	May-93

Employment History

The University of Texas at Arlington

2011 - Present	Associate Professor, Industrial and Manufacturing Systems Engineering
2011- Present	Director, RFID and AUTO-ID Deployment Labs

University of Nebraska-Lincoln, **Lincoln Nebraska**

2008 – 2010	Associate Professor, Industrial and Management Systems Engineering
2009 – 2010	Director, Transportation and Logistics Lab
2004 – 2008	Assistant Professor, Industrial and Management Systems Engineering
2004 – 2010	Director, RfSCL (Radio Frequency and Supply Chain Logistics Lab)
2004 – 2007	Site Director, National Science Foundation Industry/University Cooperative Research Center with Centers for Engineering and Logistics and Distribution
2003 – 2004	Post-Doctoral Research Associate, IMSE

University of Houston, Central

Summer 2003	Director, Minority Mentoring & Enrichment Seminar in Engineering Training (MESET) in the Program for Mastery in Engineering Studies (PROMES)
2002 – 2003	Teaching Assistant, Industrial Engineering, Cullen College of Engineering

Industry Experience

2000 – 2002	Experienced Manager, Arthur Andersen, LLP Consulting
1998 – 2000	Project Manager, Tompkins Associates Consulting Firm
1996 – 1998	Industrial Engineering Director, Academy Sports and Outdoors
1993 – 1996	Specialist, United Parcel Service (UPS)

National Accomplishments/Interviews and Media

1. Keynote Speaker – University of Texas System Louis Stokes Alliance for Minority Participation, September 16, 2011
2. Conference Chair – ISCEA 2012 Supply Chain Automation & Innovation Conference and Expo, http://www.iscea.net/automation
3. Evaluator, ABET, 2011
4. Director, International Research Experiences for Students Program in Queretaro, Mexico, 2011, funded by NSF
5. Board Chairman, ISCEA International Standards Board Technical Committee, 2011
6. College of Engineering Communications "Making sure America has enough food in Space" http://www.uta.edu/engineering/features/feature.php?id=955
7. International Journal Interview, *RFID Journal Live*, "New Director Named for the University of Texas in Arlington's Auto-ID Lab." http://www.rfidjournal.com/blog/entry/8048
8. Director - MATC Scholars Program: Minority Undergraduate Program for preparing students for Graduate school, Engineering Communication on MATC scholars program
   http://www.engineering.unl.edu/collegeheadlines/2010/collegeheadlines9-24-10.shtml
9. International Journal Interview and podcast, *RFID Connections*, "RFID: The Marriage of Theory and Practice", June 2, 2010.
   a. http://www.aimglobal.org/members/news/templates/?a=3722&template=print-article.htm
10. National Interview, "If you build it, " http://engineering.unl.edu/publications/ENonline/Spring05/IfYouBuildIt.html
11. National Media reprint, *The Entrepreneur*, "Case Study: the engineering economics of RFID in specialized manufacturing." June 2010.
12. Participating Member, DASH 7 Alliance Advisory Board, October 2009
13. National Logistics magazine feature story, *Inbound Logistics,* "Brain Trust: Supply Chain Research Labs", June 2009
14. Local radio interview, *1400AM KLIN*, 08/12/2009, 4:40pm, Kevin Thomas news show
15. National News story*, Associated Press "*2 Nebraska professors win $750K NASA grants", August 5, 2009 6:25 AM ET
16. Local News Story, *Lincoln Journal Star*, Two UNL professors get NASA grants, *August 5, 2009 1:00 am Updated: 6:14 pm*
17. National Medical Magazine interview, *Operating Room (OR) Manager interview*, "Questions to ask about RF sponge-detection systems", September 2008, Vol. 24, No.9
    a. www.ormanager.com
18. National Magazine reprint, *The Entrepreneur*, "Education in modern solutions: RFID is a must in the industrial engineering curriculum", August 2008.
19. National Engineering Magazine feature story, *Industrial Engineers*, story by Candi S. Cross, "Logistics lab publishes first studies"
    a. http://www.iienet.org/Details.aspx?id=11840

20. National Engineering Magazine interview comments, *Industrial Engineer* interview comments, " Modernizing IE" by Candi Cross, May 2008
    a. www.iienet2.org
21. Engineering@ Nebraska Magazine featured article," Spring Break at 35,000 Feet" by Carole Wilbeck, Spring 2008
    a. http://www.engineering.unl.edu/publications/ENonline/Spring08/08.shtml
22. Advisor, Microgravity University, University of Nebraska-Lincoln, http://engineering.unl.edu/current-students/microgravity/members-advisors2008.shtml
23. Chair, International Supply Chain Education Alliance, RFID Supply Chain Manager Certification (ISCEA RFIDSCM) North America Board, 2007
24. National News Paper Feature Article, *Omaha World Herald* , feature RFID Lab at the University of Nebraska, March 18th,2006

Professional Development

1. Texas Professional Engineer (License # 95393)
2. ASQ, Six Sigma Black Belt (License # 3740) since 10/22/2005
3. ABET, Program Evaluator Training – April 30,2011-May 01,2011
4. Factory Physics, Principals to Accelerate Profitability and Performance, May 18 -19, 2011
5. Summer Institute for Online Teaching – 1st year participant, 2008.
6. Peer Review Teaching Program – 1st year participant, 2nd year advanced group participant, 2005 – 2007.
7. Alfred P. Sloan, Minority PhD Program, Attended Directors Meetings in 2004 in Greensboro, NC, and Purdue University in 2006.
8. Institute for Teaching and Mentoring, Compact for Faculty Diversity, Alfred P. Sloan Program, Attended as PhD candidate and Sloan site Director Annual Meeting in 2004 through 2010.
9. NSF Minority Faculty Development, Arlington, VA, October 2006.

Awards and Honors

1. Fulbright Specialist, Engineering Education in Mexico, September 2011
2. Innovative Use of Instructional Technology Teaching Award, 2007
3. College of Engineering Teaching Award Assistant Professor, 2007
4. College of Engineering Service Award Assistant Professor, 2006
5. Omaha World Herald Featured article about RFID Lab, March 18th,2006
6. College of Engineering Research Award Assistant Professor, 2006
7. Alfred P. Sloan Underrepresented Minority PhD Program Fellow, 2001
8. NACME Undergraduate Award, 1990, 1991, 1992
9. Presidential Achievement Award (Undergraduate), 1988-1992

2. Research Accomplishments

2.1 Transcripts (Summary Table Below)

Dr. Jones' principal research activities have been in the areas of Radio Frequency Identification (RFID) technologies as they relate to Supply Chain and Military Planning, Inventory Control and Logistics, Total Quality Management and Control using Lean Six Sigma techniques, and Advanced automated Manufacturing technologies that support the development and integration of RFID and AutoID (Automatic Identification) technologies into operations. He has published over 89 manuscripts. As part of his research efforts he has advised over 22 M.S.I.E, and 6 Ph.D. students along with 19 undergraduate research students on sponsored research projects.

Transcript Type	In Print	(Print & Press) Total
Referred Journal Publications	18	21
Non-referred Journal/Magazines	5	5
***Total Journals (not in Total)**	***23**	***26**
Book Chapters	1	3
Books	3	4
***Total Journals and Books**	**27**	**33**
Referred Conference Proceedings	16	16
Conference Presentations	18	18
***Total Referred Journal Books and Conference**	**37**	**43**
Invited Speaker	22	22
Total	**83**	**89**

2.1.1 Refereed Journal Articles In-Print

*Note: Subscript Notation; 1.Masters student, 2.Ph.D. student

University of Texas Arlington

1. Mahour Mellat Parast, Stephanie G. Adams, Erick C. Jones, "Improving operational and business performance in the petroleum industry through quality management", International Journal of Quality & Reliability Management, 28(4), 2011 pp.426 – 450, 35% contribution

University of Nebraska-Lincoln

2. Franca, R.$_1$, Jones, E.C., Richards, C.$_1$, Carlson, J.$_1$, "Multi-objective stochastic supply chain modeling with imperfect quality suppliers," *International Journal of Production Economics*, 127(2), October 2010, pp. 292-299, 35% contribution

3. Jones, E.C., Mellat-Parast, M., and Adams, S.G., "A Framework for Effective Six Sigma Implementation," *Total Quality Management and Business Excellence*, 21(4), April 2010, pp. 415-424, 75% contribution.

4. Jones, E.C., Henry, M., Cochran, D., and Frailey, T.$_1$, "RFID Pharmaceutical Tracking: From Manufacturer Through *In Vivo* Drug Delivery", *Transaction of the ASME, Journal of Medical Devices*, 4(1), 2010, pp. 015001-1 – 015001-8, 75% contribution.

5. Jones, E. C., Bishu, R., and Thummalapalli R.$_1$, "DEAPS- An Alternative to DMAIC? A Case Study", *International Journal of Industrial Engineering, Theory, Application and Practice*, 16(3), 2009, pp. 214-226, 75% contribution.

6. Ross, M.$_2$, Adams, S.G., and Jones, E.C., "Can Team Success Be Predicted?" *Team Performance Journal* 14(5/6), 2008, pp. 248-268, 35% contribution.

7. Jones, E.C., and Silveray, J.$_1$, "Testing of Gen 2 RFID Tags for Tracking Inventory in the Space Shuttle," *Journal of Air Transportation*, 12(3), 2008, pp. 79-99, 75% contribution.

8. Mellat-Parast, M., Jones E.C., and Adams, S.G., "A relationship between Six Sigma and Malcolm Baldrige quality award," *Quality Progress*, 40 (9), 2007, pp. 45-51, 35% contribution.

9. Mellat-Parast, M., Adams, S.G., and Jones, E.C., "An empirical study of quality management practices in the petroleum industry," *Production Planning and Control*, 18, (8), 2007, pp. 693-702, 35% contribution.

10. Jones, E.C., Riley, M.W., Franca, R.$_1$, and Reigle, S., "The Engineering Economics of RFID in Specialized Manufacturing," *The Engineering Economist*, 52(3), 2007, pp. 285-303, 75% contribution.
    a. Jones, E.C., Riley, M.W., Franca, R.$_1$, and Reigle, S., "Case study: the engineering economics of RFID in specialized manufacturing", *The Entrepreneur*, *http://www.entrepreneur.com/tradejournals/article/169383071_1.html*
    (Reprint Article from *The Engineering Economist*)

11. Rogers, A., and Jones, E.C., "Radiofrequency Identification (RFID) Applied to Surgical Sponges," *Surgical Endoscopy*, 21(7), July 2007, pp. 1235-1237(3), 50% contribution.

12. Mellat-Parast, M., Adams, S.G., Jones, E.C., Subba-Rao, S., and Raghu-Nathan, T.S., "Comparing quality management practices between the US and Mexico", *Quality Management Journal*, 13(4), Oct. 2006, pp.36-49, 25% contribution.

13. Jones, E.C., and Chung, C.A., "A Methodology for Measuring Engineering Knowledge Worker Productivity," *Engineering Management Journal*, 18(1), Mar 2006, pp.32-29, 75% contribution.

    13a. Jones, E.C., and Chung, C.A., "A Methodology for Measuring Engineering Knowledge Worker Productivity," *Engineering Management Review*, IEEE, 34(3), Third Quarter 2006, pp.71-72. (Reprint Article from *Engineering Management Journal*).

14. Jones, E.C., "Quality Control Measurement of an Engineering Productivity Index," *Quality Engineering*, 17(4), Oct. 2005, pp. 641-646, 75% contribution.

15. Jones, E.C., "Design and Development of a Logistics Training Simulator," *Journal of Engineering Systems Simulators*, 1(4), Oct. 2004, pp. 38-43, 75% contribution.

16. Jones, E.C. and Anantakrishnan, G.$_1$, "A Training Simulator For Radio Frequency Identification Education", *Journal of Engineering Systems Simulators,* 1(4), Oct 2004, pp. 44-51, 75% contribution.

17. Jones, E.C. and Hain, J.A.$_1$, "Using What You Have", *Six Sigma Forum Journal,* 4(3), May 2005, pp. 23-28, 75% contribution.

Note: For publication numbers 13 and 14, Dr. Jones was the Executive Editor of the journal. A standard double blind review was performed as per the journal guidelines. www.joessim.org

2.1.2 Other Publications In-Print

University of Texas Arlington

1. Jones, E.C., "Commercial Vehicle Information Systems and Networks (CVISN) Program Planning, Membership Fees, and Feasibility and Prototype Plan: Evaluation of RFID Technologies for Roadside Safety." Technical Report IT083101G00000. Research Program Sponsored by Nebraska Department of Motor Vehicles and *Federal Motor Carrier Safety Administration.* October 2011.

2. Jones, E. C., Cavitt, M.D.$_2$, Garza, A.$_2$, "Heuristic Stochastic Inventory Policy for National Aeronautics and Space Administration (NASA)", *Industrial Engineer*, Vol 40, No. 2, February, 2011, pp. 29-33

University of Nebraska-Lincoln

3. Jones, E.C., Perkin, JA, Kelley, E. L, Dabipi, I.K., Blevins, E.R., and Chimba, D. "MATC Scholars program to promote graduate study among under-represented minorities and women in the STEM fields." Performed in cooperation with the Mid-America Transportation Center at Whittier building, Lincoln NE

4. Jones, E.C., Garza, A.$_2$, Anantakrishnan, G.$_2$, Kandari, J.$_2$, "The Marriage of Passive and Active Technologies in Healthcare," *RFWave,* April, 2011.

5. Lodgher, A. (Primary Author), Perkins, J.A. (Co-Author), Yang, Y. (Co-Author), Jones, E.C. (Co-Author), and Hawkins, H.G. (PI and Co-Author), "Feasibility and Applications of RFID Technologies to Support Right-of-Way Functions: Technical Report". Technical Report 0-6142-1 Co-operative Research Program. *Texas Transportation Institute, The Texas A&M University System College Station, TX, Texas Department of Transportation, in co-operation with Federal Highway Administration and Texas Department of Transportation.* August, 2010.

6. Jones, E.C., and Chung, C., "Education in modern solutions: RFID is a must in the Industrial Engineering curriculum", *Industrial Engineer,* Vol. 40 No. 8, August 2008, pp. 29-33.
    a. Jones, E.C., and Chung, C., "Education in modern solutions: RFID is a must in the Industrial Engineering curriculum", *The Entrepreneur,* http://www.entrepreneur.com/tradejournals/article/182930116.html (Reprint Article from *Industrial Engineer*, listed above as #1).
    b. Jones, E.C., and Chung, C., "Education in modern solutions: RFID is a must in the Industrial Engineering curriculum", *All Business,* http://www.allbusiness.com/company-activities-management/operations-supply-chain/11597426-1.html,

(Reprint Article from *Industrial Engineer*, listed above as #1).

7. Jones, E.C., and Battieste, T., "Golden Retrieval," *Industrial Engineer,* Vol. 36 No. 6, June 2004, pp. 44-51. (1 Citation: Community of Science)

8. Boutte, F. D., Jones, E.C., Hendricks, B., and Rodger, G.J., "Group Dynamics of Video Conferencing," *Industrial Hydrocarbons Journal*, August 1996, 76(8), pp. 139-143.

2.1.3 Refereed Journal Articles In-Press

University of Texas Arlington

1. Kandari, J., Jones, E.C., Nah, F. and Bishu, R., "Information Quality on the World Wide Web: Development of a Framework", International Journal of Information Quality, accepted 6/8/2011. 25% contribution

2. Jones, E.C., Bishu, R., Yeddula, V.$_1$, Musunuru, V.$_1$, Thummalapalli, R.$_1$, "Advanced Machine Tools: How Best to Train Operators", *International Journal Industrial Engineering, Theory, Application and Practice,* accepted 09/10/2010, 75% contribution.

3. Jones, E.C., Mellat-Parast, M., and Adams, S.G., "Developing an Instrument for Measuring Six Sigma Implementation," *International Journal of Services and Operations Management* accepted 04/15/2010, 75% contribution.

2.1.4 Other Publications In-Press

1. Jones, E.C., Perkins, J.A., and Mwakalonge, J.L. "Investigating RFID for Linear Asset Management." Technical Report 25-1121-0001-333. Research Program Sponsored by Mid American Transportation Center. October 2011.

2.1.5 Refereed Journal Articles Submitted

University of Texas Arlington

1. Gnaneswaran, V., Jones, E.C., and Bishu, R.R. "Development of Force-Endurance Models for Simulated Dental Task." International Journal of Industrial Ergonomics. 07/2011. 25% contribution

2. Jones, E.C., and Gnaneswaran, V. "RFID has Arrived and is Ready for Future." International Journal of Radio Frequency Identification and Wireless Sensor Networks. 07/2011. 75% contribution

3. Jones, E.C., Mellat-Parsat, M. "RFID in Space: Exploring the Feasibility and Performance of Gen 2 Tags as a Means of Tracking Product" International Journal of Logistics Research and Application. 06/2011. 50% contribution.

4. Kandari, J., Jones, E.C., Nah, F. and Bishu, R., "Information Quality on the World Wide Web: A Framework for Measurement and Its Validation," International Journal of Human Computer Interaction, 12/2010. 25% contribution

University of Nebraska-Lincoln

5. Jones, E.C. and Zhang, Liyuan, "Comparison Analysis of Fuzzy AHP and AHP in Multiple-Decision Making Problem Using Statistic Approach," European Journal of Operational Research. 12/2010. 50% contribution

6. Jones, E.C., Zhang, Liyuan, and Huggins, Anali, "Using RFID Portal and RFID Forklift to Optimize Systematic Layout Design," International Journal of Production Research, 9/3/2010. 50% contribution

7. Jones, E.C., Perkins, J., Mosby, D., Kong, D., Cavitt, M., "Evaluating RFID Reliability for Roadside License Plate Identification," Journal of Transportation Management, TEENG-65, submitted 8/15/2010. 75% contribution

2.1.6 Other Publications Submitted

1. Jones, E. C., Mosby, D.$_2$, Kong, N.$_2$, and Cavitt, M.$_2$, "Using Quality Product Requirement Techniques to Determine Transportation Shareholder Necessities for RFID Technologies", *Quality Engineering*, LQEN 2009-0113 submitted, December 31st, 2009, resubmitted, August 15th, 2010.

2. Jones, E. C. and Parast, M., "RFID in Space: Exploring the Feasibility and Performance of Gen 2 Tags as a Means of Tracking Equipment, Supplies, and Consumable Products in Cargo Transport Bags onboard a Space Vehicle or Habitat", *Journal of Air Transportation Logistics* JATM-D-09-00125, submitted *Industrial Engineer*, August 15th, 2010.

3. Jones, E. C., Richards, C.1, Gnaneswaran, V.2, and Riley, M., "Using Multi-Criteria Decision Analysis to Select the Best Practices for Safely Loading Trailers," Journal of Transportation Safety & Security, submitted August 25, 2009. Journal of Safety Research Decision on Manuscript ID UTSS-2009-0046, resubmitted to Journal of Safety Research JSR-D-09-00136. Submitted IIE Industrial Management Magazine, August 30th, 2010.

2.1.7Books In-Print

University of Texas Arlington

1. Jones, E.C, and Chung, C.A., "RFID and Auto-ID in Planning and Logistics," CRC Press: Taylor and Francis Group, Boca Raton, FL, Accepted for publication by Taylor and Francis, Boca Raton, FL, 2010. 75% contribution

University of Nebraska-Lincoln

2. Jones, E.C, and Chung, C.A., "RFID in Logistics," CRC Press: Taylor and Francis Group, Boca Raton, FL, 2008, 75% contribution.

2.1.8 Books Edited

1. Clampitt, H.G., and Edited by E. C. Jones, "RFID Certification Textbook," PWD Group, January 2006 (Non-Academic Text).
    a. Second Edition, May 2006.
    b. Third Edition, American RFID Solutions, Arlington Heights, IL, May 2007.

2.1.9 Books Accepted Proposals – In Press

University of Texas Arlington

1. Jones, E.C. "Modern Quality for Organizations Using Lean Six Sigma Techniques," CRC Press: Taylor and Francis Group, Boca Raton, FL, Expected publication date summer 2013. 100% contribution.

2.1.10 Book Chapters In-Print

1. Jones, E.C., "Simulation of a Will Call, customer counter," Simulation Handbook: A Practical Approach, ed. Christopher Chung, CRC Press 2003. 75% contribution.

2. Taylor, K.A., and Jones, E.C, "Fair Fare Policies: Fare Policies that regard Transit-Dependent Community-Based Operations Research: Decision Modeling for Local Impact and Diverse Populations". Springer: Science-Business Media LLC, submitted June 22, 2010. 50% contribution.

2.1.11 Book Chapters In-Press

University of Texas Arlington

1. Jones, E.C., and Gnaneswaran, V. "RFID has arrived and is ready for the Future." Intech-Open Access Publisher. 25% contribution

2.1.12 Refereed Conference Proceedings *(The Presenter is underlined)*

University of Nebraska-Lincoln

1. Jones, E.C., Cavitt, M., and Kong, D., "Manufacturing Feasibility Evaluation of RFID chips embedded in Artificial Organs", Proceeding of the International Conference on Future Information Technology and Management Engineering, December 2010, Changzhou, China, pp 302-304

2. Jones, E. C., Riley, M.A, Battieste, T., "The Value of Industrial Engineers in Lean Six Sigma Organizations," *Proceedings of the Institute of Industrial Engineers Annual Conference*, June 5^{th}-9^{th}, 2010, Cancun, Mexico.

3. Jones, E. C., and Garza.$_2$, A "Six Sigma Deployment Success According Shareholder Value ", *Proceedings of the Institute of Industrial Engineers Annual Conference*, June 5^{th}-9^{th}, 2010, Cancun, Mexico.

4. Jones, E. C., and Thummalapalli, R.$_1$, "The Healthcare Economics of Automating Healthcare Systems," *Proceedings of the Institute of Industrial Engineers Annual Conference*, June 5^{th}-9^{th}, 2010, Cancun, Mexico.

5. Jones, E. C., and Chung, C. A., "Using RFID Material Handling to Optimize Systematic Layout Planning (SLP)", *Proceedings of the Institute of Industrial Engineers Annual Conference*, May 19-22, 2009, Miami, FL.

6. Jones E.C., and Gao, F.$_1$, "Using Design for Six Sigma to Develop Real World Testing Environments for RFID Systems," *Proceedings of the Institute of Industrial Engineers Annual Conference*, May 19-22, 2007, Nashville, TN.

7. Jones, E.C., and Koopman, A., "Measuring STEM Attrition in an Engineering College," *Proceedings of the ASEE Conference*, June 18-20, 2006, Chicago, IL.

8. Jones E.C., and Farnham, T.$_1$, "Obsolete Inventory," *Proceedings of the Institute of Industrial Engineers Annual Conference*, May 20-24, 2006, Orlando, FL.

9. Mellat-Parast, M., and Jones E.C., "A relationship between six sigma and Malcolm Baldrige quality award," *Proceedings of the Institute of Industrial Engineers Annual Conference*, May 20-24, 2006, Orlando, FL.

10. Jones, E.C., Oswal, S.$_1$, Koopman, A., and Keithley, B., "Using Industrial Engineering Tools to Improve Engineering Student Attrition," *Proceedings of the ASEE Conference*, June 13-15, 2005, Portland, OR.

11. Jones, E.C., and Narasimhan, J., "Methodology for evaluating Simulation Software for Engineering Management Courses," *Proceedings of the ASEE Conference*, June 13-15, 2005, Portland, OR.

12. Jones, E.C. and Hain, J.$_1$, "How Behavioral Skills Make Project Managers Successful from the Senior Manager's Perspective," *Proceedings of the ASEM Conference*, October 20-23, 2004, Arlington, VA.

13. Jones, E.C., and Adams, S., "A mathematical model for white-collar cognitive turnover," *Proceedings of the ASEE Conference*, June 20-23, 2004, Salt Lake City, UT.

14. Jayakumar, N., and Jones, E.C., "Reduction in the variation of welding process using the Operational Six-Sigma Methodology," *Proceedings of the Industrial Engineering Research Conference*, May 15-19, 2004, Houston, TX.

15. Jones, E.C., and Chung, C.A., "A Predictive SPC Model for Determining Cognitive Voluntary Turnover Before Physical Departure," *Proceedings of the Industrial Engineering Research Conference*, May 2003.

2.1.13 Conference Presentations with Abstracts *(The Presenter is underlined)*

University of Texas Arlington

1. Jones, E., Kandari, J. and Garza, A "Impact of Environmental Focused Management Strategies on Shareholder Value" Proceedings of the Institute of Industrial Engineers Annual Conference, 2011, Reno, Nevada.

2. Jones, E., Garza, A., and Kandari, J. "Evaluation of Six Sigma Success in Healthcare Industry" *Proceedings of the Institute of Industrial Engineers Annual Conference*, 2011, Reno, Nevada.

3. Jones, E. and Garza, A. "Innovating Continuous Review Policies with RFID to Minimize Obsolete Inventory*" Proceedings of the Institute of Industrial Engineers Annual Conference*, 2011, Reno, Nevada.

4. Jones, E.C., Anantakrishnan, G. and Gnanenswaran, V, "Computer Simulated Game tool to overcome Cognitive Turnover Hawthorne Effect," IERC 2011 Conference, May 21st – 25th, 2011, Reno, Nevada.

5. Jones, E.C., and Zhang, Liyuan, "Comparison of Fuzzy AHP and AHP with Statistic Approach," IERC 2011 Conference, May 21st – 25th, 2011, Reno, Nevada.

6. Jones, E. C. and Kong, D., "Using the house of quality factors for strategic transportation planning" *Proceedings of the Institute of Industrial Engineers Annual Conference*, 2011, Reno, Nevada

7. Jones, E. C., Cavitt, M., "Evaluating Obsolete Inventory In A Hospital Supply Chain" *Proceedings of the Institute of Industrial Engineers Annual Conference*, 2011, Reno, Nevada.

University of Nebraska-Lincoln

8. Jones, E. C., Cavitt, M., "Inventory Control Modeling Using Radio Frequency Identification Technologies," *Proceedings of the Institute of Industrial Engineers Annual Conference*, June 5th-9th, 2010, Cancun, Mexico.

9. Jones E.C., "Utilizing RFID as an Intelligent Agent in Transportation Systems," *Institute of Industrial Engineers Annual Research Conference*, May 20, 2007, Nashville, TN.

10. Jones E.C., "Integrating RFID into Supply Chain Logistics," *Institute of Industrial Engineers Annual Research Conference*, May 20, 2007, Nashville, TN.

11. Jones, E.C., and Nowak, N., "Testing of Gen 2 RFID Tags for Tracking Inventory in the Space Shuttle ", *Proceedings of the Annual Meeting of the Nebraska Academy of Sciences Aeronautics & Space Science* , April 23, 2007, Lincoln, Nebraska.

12. Bishu, R., and Jones, E.C., "Quality," *Proceedings of the Institute of Industrial Engineers Annual Conference*, May 20-24, 2006, Orlando, FL.

13. Mellat-Parast, M., and Jones, E.C., "A relationship between six sigma and supply chain uncertainty", *Proceedings of the 17th Annual Conference of Production and Operations Management Society (POMS),* April 28-May 1, 2006, Boston, MA.

14. Mellat-Parast, M., and Jones E.C., "Six sigma in the supply chain environment," *Proceedings of Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, November 13-16, 2005, San Francisco, CA.

15. Jones, E.C., "RFID Technology for Tracking Inventory in the Space Shuttle ", *Proceedings of the Annual Meeting of the Nebraska Academy of Sciences Aeronautics & Space Science* , April 22, 2005, Lincoln, NE.

16. Jones, E. C., and Chung, C., "The Art of Not-Working," *Proceedings of the Industrial Engineering Research Conference*, May 15-19, 2004, Houston, TX.

17. Jones, E. C., and Battieste, T., "Warehouse picking productivity increases by slotting inventory in the Golden Zone," *Proceedings of the Industrial Engineering Research Conference*, May 15-19, 2004, Houston, TX.

18. Jones, E. C., and Chung, C. A., "A Predictive Model for Determining Cognitive Turnover in Engineers before physical departure," *Proceeding of the INFORMS conference*, October 21, 2003.

2.1.14 Conference Abstracts Submitted

University of Texas Arlington

1. Jones, E.C., and Gnaneswaran, V. "Measuring student attrition using mobile phone applications" 119th ASEE Annual Conference and Expo, June 10-13, 2012

2. Jones, E.C., and Gnaneswaran, V. "The Impact of International Latin American Work Culture on Industrial Engineering Principles" 119th ASEE Annual Conference and Expo, June 10-13, 2012

3. Jones, E.C., and Gnaneswaran, V. "The Evaluation of an International Latin America Cultural Experience on U.S. Engineering Students" 119th ASEE Annual Conference and Expo, June 10-13, 2012

4. Gnaneswaran, V., and Jones, E.C. "Use of SECtCS Methodology for the Improvement of Educational Institutions." Institute of Industrial Engineers Annual Conference and Expo, May 19-23,2012, Orlando, Florida
5. Jones, E.C., and Gnaneswaran, V., "Model for Managers to Identify the Mentally-Departed Knowledge Worker." Institute of Industrial Engineers Annual Conference and Expo, May 19-23,2012, Orlando, Florida

6. Jones, E.C., and Gnaneswaran, V., "A Framework for Detecting Hazardous Events Occurring in Transit with AutoID Technologies." Institute of Industrial Engineers Annual Conference and Expo, May 19-23,2012, Orlando, Florida

2.1.15 Invited Speaker/Keynote Speaker

University of Texas Arlington

1. Jones, E. C., "Six Sigma Yellow Belt Training", *APICS*, Arlington, TX, May 18, 2012

2. Jones, E.C., "Research Experiences for Undergraduate Engineering Students," University of Texas System LSAMP Conference, Arlington, TX, September 16, 2011.

3. Jones, E. C., "Using RFID in Space and the implications on Earth," *AIM Conference*, Las Vegas, NV, September 28th, 2011.

4. Jones, E. C., "RFID in the past, present, and future in Healthcare, Manufacturing, and Logistics," *US Fulbright Specialist Program*, Querétaro, Mexico, June 30th, 2011.

5. Jones, E. C., "How to Develop and Write a Research Paper," *NSF IRES in Mexico*, Querétaro, Mexico, June 27th, 2011

6. Jones, E. C., "How to perform Graduate Research," *NSF IRES in Mexico*, Querétaro, Mexico, June 17th, 2011.

7. Jones, E. C., "Insights to Performing Research Studies," *NSF IRES in Mexico*, Querétaro, Mexico, June 10th, 2011

University of Nebraska-Lincoln

8. Jones, E. C., "How to Apply, Budget and Use Graduate Fellowships and Funding for Graduate School," *MATC Scholars Program*, Lincoln, Nebraska Summer 2010.

9. Jones, E. C., Riley, M.A, Battieste, T., "The Value of Industrial Engineers in Lean Six Sigma Organizations," *Proceedings of the Institute of Industrial Engineers Annual Conference*, Cancun, Mexico, June 5-9, 2010.

10. Jones, E. C., "Six Sigma Yellow Belt Training", *Institute for Supply Management*", Lincoln, NE, April 10, 2010.

11. Jones, E. C., "RFID in Healthcare, Manufacturing, and Logistics," *APICS*, Lincoln, NE, March 18, 2010.

12. Jones, E. C., "Using Six Sigma in Supply Chain Procurement Practices," *Institute for Supply Management*, Lincoln, NE, November 18, 2009.

13. Jones, E. C., "Identifying Medical Errors Using Automatic Information Technology," *American Society of Quality*, Lincoln, NE, October 16, 2009.

14. Jones, E.C., "A Methodology for Assessing Knowledge Worker Productivity," *Office Ergonomics Research Committee (OERC) Spring 2009 Meeting*, St Paul, MN, April 1-3, 2009.

15. Jones, E.C., "RFID Basics," *Nebraska Transportation Center Summer Technology Institute for Professional Develop for Science and Math for Nebraska High School and Middle School Teachers*.
    - July 17, 2008
    - July 11-13, 2007

16. Jones, E.C., "Current Research Trends in Logistics," *Nebraska Transportation Summit, University of Nebraska-Lincoln*, April 30, 2008.

17. Jones, E.C. (Keynote speaker), "The Real Cost of RFID Implementations," *Nebraska Logistics Council Annual RFID Conference, Bellevue College*.
    - March 14, 2008, Bellevue, NE
    - August 8th, 2006, Bellevue, NE

18. Jones, E.C., "RFID Basics for High School and Middle School Teachers," *NCE-Conference, Central Community College*, Kearney, NE, June 4, 2007.

19. Jones, E.C., "RFID Basics for High School and Middle School Teachers," *Transportation, Distribution, Warehousing, and Logistics (*TDW&L) Pathway Academy, Mid-Plains Community College*, North Platte, NE, June 19, 2007.

20. Jones, E.C. (Keynote speaker), "RFID in the Flat World and the Global Impacts", April 26-27th, 2007, *Monterey Tech (Querétaro Campus)*, Querétaro, Mexico

21. Jones, E.C. (Keynote speaker), "The Costs and Best Practices for Implementing Warehouse Management Systems," *Nebraska Logistics Council Lecture Series*, October 16, 2006, Bellevue College, Bellevue, NE.

22. Jones, E.C., and Bukkaptnam, S., "RFID Basics Pre-Conference Seminar", *Centers for Engineering Logistics and Distribution (CELDi) Research Conference*, May 23-25, 2004.

23. Jones, E.C., Topic: "E-Supply Chain Synthesis", *Supply Chain Management Conference sponsored by Logility Software*, New Orleans, LA, May 2000.

2.2 Grantsmanship Record

Dr. Jones has received support that equates to over $ 3.7 million dollars in funding and awards from a diverse portfolio of federal funding agencies which include the National Science Foundation (NSF), NASA, and Department of Transportation (DOT), he has originated and directed federally funded (NSF) Industry/University Cooperative Researcher Center site and Alfred P. Sloan Minority PhD Program Center site, and he has Attained non-federal funding from local corporate and economic development partners. This support has facilitated research in RFID and AutoID technology development and integration into Supply Chain Commercial and Military Logistics, automated Manufacturing, and Assisted Living, Health and Human Services, and Surgical Healthcare initiatives. His research facilitates local research partnerships with K-12, community colleges, and medical centers and international collaborations that supports graduate student recruitment, and undergraduate research experiences.

2.2.1 Representative Sample of Projects
University of Nebraska-Lincoln

1. (PI) University of Nebraska Extended Education, "Logistics Certification Program", 4/30/2007 through 04/29/2009. The certificate program will take advantage of existing internal capacity. Coordination, management, and evaluation of the program will be the responsibility of the

department of Industrial and Management Systems Engineering (IMSE) within the College of Engineering (COE). IMSE will work with COE administration and the National Science Foundation Industry/University Cooperative Research Centers for Engineering and Logistics Distribution (NSF I/UCRC CELDi) Nebraska Center to provide the needed leadership.

2. (PI) University of Nebraska Layman Foundation, "A Model for Creating, Monitoring and Optimizing NASA Teams", 06/01/2009 - 05/31/2010, The research goal is to develop a methodology that NASA can use to create, monitor, and optimize team performance during the life phases of an effective team's existence. Three research areas are one, provide a pre-flight team fit analysis, two, remote behavior-monitoring of existing teams with real time team problem identification and resolution and three, post-flight process for integrating successful resolution to next team training events.

3. (PI) University of Nebraska Layman Foundation, "Radio Frequency Transponder Design and Manufacturing", 04/07/2005 through 04/07/2006, This study proposed the development of RFID sensor active tags (SAT) that would integrate with existing stowage bags in order to keep an accurate count of inventory and allowing inventory to be updated automatically without requiring Astronauts having to individually scan items as with a barcode system.

4. (PI) National Science Foundation EPSCOR – Minority Researcher Award, "Methodology for Predicting the Attrition of Engineering Students", 09/14/2004 through 09/13/2005, This research introduces a Smart Active Tag (SAT) which will fulfill this need through the development of a RFID sensor tag that will automatically capture individual "eaches" information without the added labor.

5. (PI) University of Nebraska-Lincoln Layman Foundation, Development and Validation of a Mathematical Model for Cognitive Turnover for knowledge workers and students, 01/15/2004 through 01/14/2005, This program looked at the development of an interdisciplinary approach that could identify, evaluate, and improve the retention of STEM students and knowledge workers. It was aimed to support the educational and professional missions of the National Science Foundation and the increase in the number of students in these areas, including groups currently underrepresented in the STEM disciplines.

University of Texas Arlington

1. (PI) Fulbright Specialists Grant in Engineering Education (Mexico, Monterrey Institute of Technology), 09/07/2011-09/20/2011, The Industrial Engineering Department at Tecnologico de Monterrey, Campus Querétaro is beginning research in the area of RFID and logistics. Dr. Jones visit is intended to strengthen this area and a further development of the knowledge of those involved. Given that Dr. Jones is a leading expert in the area of RFID, his visit and assistance will help develop further Tecnologico de Monterrey, Campus Querétaro research program and will also help fortify the relationship between the University of Texas and our institution.

2. (PI) "IRES Mexico: RFID in Mexico" NSF OISE (Monterrey Tech, Querétaro partner), 06/01/2010-05/31/2013

To create IRES Program at Tecnológico de Monterrey, Campus Monterrey, Tecnológico de Monterrey Campus Querétaro and University of Texas Arlington (UTA). The specific outcomes are to enhance students' research skills and facilitate cross-cultural research opportunities in internationally emerging engineering fields; increase students' comfort level when working with people from different cultures; increase students' awareness of cultural differences; become familiar with the Spanish language and increase student abilities in research methods and problem-solving skills that will make them competitive in an international research environment.

3. (PI) KLSS, Inc, "NETS Demonstration" , 03/29/2011 - 09/16/2011To provide KLSS, Inc team an RFID and AutoID equipment suport for a demonstration to the US military. Support included analysis that determines the best methods for maximizing the future capabilities of RFID and AutoID technologies to support advanced software developed by the KSS team. The long-term goal of the research is to provide research that allows KLSS, inc team to demonstrate future and usable capabilities to the military.

4. (Co-PI) United Negro College Fund Special Programs Coordination – Harriett G. Jenkins Pre-Doctoral Fellowship Program - awarded 8/26/2011, student awarded: Maurice Cavitt-Industrial and Manufacturing Systems Engineering), This fellowship is to support the current research performed by Maurice Cavitt with Dr. Jones with the NASA RFID RTLS Research.

5. (PI) Alfred P. Sloan Foundation "Increasing PhDs for Underrepresented Minorities Program, University of Texas Arlington Program", awarded 1/01/2011- 06/30/2013, Award 1 student (Maurice Cavitt) per year for 3 years. There is currently no accurate information on the retention statistics of underrepresented minorities at the University of Texas at Arlington. This proposal request that the Sloan Foundation use the retention statistics across all of the other Sloan underrepresented programs of 80%.

6. (PI) Alfred P. Sloan Foundation "Increasing PhDs for Underrepresented Minorities Program, University of Texas Arlington Program", awarded 1/01/2011- 06/30/2013, $ 28,000 student fellowship $ 2,000 administrative grant. Award 1 student (Andrea Graham) per year for 3 There is currently no accurate information on the retention statistics of underrepresented minorities at the University of Texas at Arlington. This proposal request that the Sloan Foundation use the retention statistics across all of the other Sloan underrepresented programs of 80%.

University of Nebraska-Lincoln

7. (PI) Aurora Cooperative Corporation, "Evaluating Transportation to Reduce Ethanol Production Cost" " (Co-PI , Demet Batur) To provide Aurora Cooperative (ACO) team a facility capacity analysis that determines the best methods for maximizing the future processing capacity of inbound grain volume at the Aurora West Grain Terminal. The long-term goal of the research is to provide a service that allows Sponsor(s) to run different scenarios that may lead them to solution that optimizes the plant output.
8. (PI) Mid America Transportation Center, "MATC Educational Project: MATC Scholars ProgramTo fulfill the need of transitioning minority students to successful performance at

research extensive institutions and graduate school. The project entails working with faculty and providing seminars that identify common challenges for minority students from minority serving institutions and or smaller teaching focused universities and tracking their progress and feedback.

9. (Co-PI) NASA EPSCOR, "NASA Astronaut Hand Evaluations for Gloves in Space" (PI, Ram Bishu), 10/1/2009-06/30/2010, Analyze NASA data base on hand anthropometry and to develop principal component analyses based hand sizes. To develop measures to define glove sizes, develop evaluation protocol and performance model.

10. (PI) NASA EPSCOR, "RFID and RTLS Enhancement for Inventory Management and Logistics Space Transportation Systems" Research, design, and develop technologies that support our research concept of "crew-free" inventories. Moreover, this research may provide a means for consumable inventory, experiments, and other important assets to be "located" or found using a simple to operate device.

11. (PI) Alfred P. Sloan Foundation "Increasing PhDs for Underrepresented Minorities Program, University of Nebraska Program", awarded 9/23/2007, (1 student awarded: Angela Garza - Industrial Engineering), Student expected graduation 5/15/2014There is currently no accurate information on the retention statistics of underrepresented minorities at the University of Nebraska. This proposal request that the Sloan Foundation use the retention statistics across all of the other Sloan underrepresented programs of 80%.

12. (Co-PI) "Investigation and Evaluation of Windmill Safety Using the Analytical Hierarchy Process", Nebraska Center for Energy Sciences Research, NCESR, Energy Research Grants (PI, Michael W Riley) Submitted 07/15/2009 This research investigates best safety practices that support effective operating procedures in windmill powered energy environments. Best practices will be investigated through extensive interviews from industry experts, visits to local windmill facilities, and literature review. This research seeks to further develop a decision modeling tool for selecting the most effective safety practices for windmill power operations.

13. (PI) Mid-American Transportation Center (MATC), "Evaluation of RFID Technologies for Linear Roadside Assets", (Co-PI, Judy Perkins), Prairie View A&M University, Prairie View, TX, (required matched funds, award value) Explore and evaluate linear asset tracking methods. The project will utilize information from the Nebraska Department of Roads (NDOR) and the Texas Department of Transportation (TxDOT) as well as a literary search to determine critical needs and several methods of tracking linear assets. Methods will be evaluated to determine ability to meet project-critical needs.

14. (PI) NASA EPSCOR, RFID and RTLS Enhancement for Inventory Management and Logistics Space Transportation Systems (Match required) Investigate use of Radio Frequency Identification (RFID) technologies as a Real-Time Location System (RTLS) in order to minimize the amount of astronaut time that is spent taking inventory and managing stowage logistics onboard the International Space Station (ISS). The proposed RFID based RTLS system will be integrated and possibly enhance with the existing Inventory Management System (IMS) tools used by NASA to keep track of inventory in space.

15. (PI) Aurora Cooperative Corporation, "Evaluating Grain Supply Chain Logistics Costs for Aurora Tri Terminal Expansion" (Co-PI's , Mike Riley, Jeffrey Woldstad), 03/03/2009-05/01/2010. To provide the Aurora Cooperative (ACO) team a network flow cost analysis, which includes an energy consumption savings component for use in a Nebraska Department of Energy proposal. The main intent is to describe the results that best demonstrate the economic and energy benefits of expanding Aurora's network capacity through facility expansion and consolidation of freight with respect to their distribution network.

16. (Co-PI) Nebraska Department of Economic Development, Tenneco Plant Supply Chain Modeling (PI, Jeonghan Ko). Provide the DED team an initial facility location comparison based upon data provided by the "Tenneco" Cozad Pant (TCP). The main intent is to describe the results that best demonstrate the benefits of the TCP with respect to other plants in the Tenneco's supply chain network. The long term goal is to provide a service that allows Client(s) to run different scenarios that may lead them to work on solutions that may further encourage organizations to locate and retain their operations to the State of Nebraska.

17. (PI) NASA EPSCOR, "RFID and RTLS Enhancement for Inventory Management and Logistics Space Transportation Systems" (required matched funds). 01/01/2009-12/31/2009The objective of this project is to measure and evaluate the performance of the latest Gen 2 passive technologies. Specific goals include evaluating the performance of off the roll COTS RFID Gen 2 tags; Evaluate the performance of RFID Gen 2 labeled NASA consumable items and supplies; and describe the possible uses of Gen 2 passive tags for NASA and suggest alternative RFID technologies that need to be investigated.

18. (PI) Department of Transportation (DOT) Federal Motor Carrier Safety Administration (FMSCA) Commercial Vehicle Information Systems and Networks Program (CVISN) and Nebraska Department of Motor Vehicles (DMV), "Evaluation of RFID Technologies for Roadside Safety", 07/15/2008 - 01/15/2010. The overall goal of this initiative is to develop a system capable of providing accurate, real time information to government agencies at a marginal cost to the users. The main objective of the research is to study the issues, both technical and political, related to embedding RFID tags into Nebraska License plates.

19. (PI) Covidien Corporation, "Barcode RFID Automation Analysis", 07/01/2008- 08/15/2008. The objective of this engagement is to identify opportunities in which Automatic Data Capture technologies such as RFID can improve and enhance materials management at Covidian.

20. (PI) NASA EPSCOR, "RFID and RTLS Enhancement for Inventory Management and Logistics Space Transportation Systems", 05/10/2008 - 01/15/2009. By utilizing RFID and RTLS technologies this research will attempt to minimize the amount of Astronaut time that is spent taking inventory and stowage logistics onboard the ISS. This study will propose an RFID RTLS system that will integrate with the existing Inventory Management System tool used by NASA to keep track of inventory.

21. (PI) NASA EPSCOR Undergraduate Microgravity Research Program Travel Grant, "Testing of RFID Technologies. The long term research objective is to design a reliable RFID system at

the can be manufactured at the micro scale level. The research objective of this proposal is to test and evaluate the manufacturing design of antennas for RFID tags at the micro scale level. These effects can be evaluated after testing of antennas designed from micro manufactured process such as EDM.

22. (PI) Mid-American Transportation Center (MATC), "Evaluation of RFID Technologies for Roadside Safety", (Co-PI, Judy Perkins), Prairie View A&M University, Prairie View, TX, 06/01/2008 - 06/01/2009. To perform a stakeholder analysis for utilizing radio frequency identification (RFID) technologies to assist with PRISM objectives at roadside. This ten month project unites researchers and students from University of Nebraska-Lincoln and Prairie View A&M University in applied research that supports a system approach for quantifying the data collection infrastructure and operating risks that can be utilized by several transportation agencies. The project will utilize information from the Nebraska Department of Motor Vehicles (NEDMV), the Nebraska Department of Roads (NDOR) and the Nebraska State Patrol (NSP) to perform stakeholder analysis, an evaluation of RFID technologies in comparison to Automatic License Plate Systems (ALPR), and determine the return on investment.

23. (PI) NASA and VerdaSee Solutions, "Testing of RFID Gen 2 Technologies for NASA ISS", 10/01/2007 - 04/01/2008. Help the NASA Constellation Program Crew Expedition Vehicle (CEV) Program Office to identify a better mechanism to track consumables and other critical hardware without impacting crew time.

24. (PI) Alfred P. Sloan Foundation - Increasing PhDs for Underrepresented Minorities Program, University of Nebraska Program, awarded 9/23/2007, (1 student awarded: Catherine Atwood-Architectural Engineering), Student expected graduation 5/15/2012. The objective of this proposal is to receive approval for faculty participation by Dr. Erick C. Jones, a former Sloan Fellow 2002 and a new tenure track faculty at the University of Nebraska, in this program.

25. (PI) NASA EPSCOR, Travel Grant, 05/01/2007 - 05/01/2008. Help the NASA Constellation Program Crew Expedition Vehicle (CEV) Program Office to identify a better mechanism to track consumables and other critical hardware without impacting crew time.

26. (PI) City of Houston Health and Human Services Department, "Information Technology System Innovation Analysis", 04/22/2007 -04/21/2008. The objective of this engagement is to benchmark, evaluate, and document recommendations for an effective approach purchasing and implementing an Integrated Health Care System. The Integrated Health Care System (IHCS) evaluation will assess current information technology (IT) systems and recommend where new technologies can improve and enhance current operations.

27. (Co-PI) Mechanical Contractor Education Research Foundation (MCERF), "Evaluation of RFID in Construction Industry", Tim Wentz (Co-PI), Terry Stentz (Co-PI), 03/01/2007 through 03/09/2008. Provide a representative demonstration and evaluation of how RFID technology can be used by mechanical contractors on construction projects to more effectively control property and material losses and to prevent the pilferage of tools and equipment.

28. (PI) National Science Foundation – INTL Supplement, I/UCRC CELDi, 08/24/2006 through 08/23/2007. This proposal presents a plan to broaden the research and industry base of the Center for Engineering Logistics and Distribution (CELDi) NSF I/URC program based at the University of Arkansas. The CELDi program contains six academic partners (University of Arkansas, the University of Louisville, Oklahoma State University, the University of Oklahoma, Lehigh University, and the University of Florida) focusing their collective research efforts on inventing, developing, and expanding the research knowledge of logistics and distribution engineering. We propose expanding this multi-university center to include researchers from the University of Nebraska. This new academic center member will broaden CELDi's research scope by considering research problems and issues affected by Radio Frequency Identification (RFID) technologies, specialized facility location strategies, and logistics networks of non-traditional distribution operations. This new center will create a broader industry sector representation at CELDi, by bringing a leading city government, and an exploratory research management firm (industry sectors not well represented by the center's member base), as well as additional member from other non-traditional distribution firms.

29. (PI) Nebraska Department of Economic Development, "The Nebraska Model: Logistics Network Design Analysis", 05/10/2006- 05/09/2007. In this proposal, the Nebraska Department of Economic Development will have a tool to help organizations evaluate the cost effectiveness of locating their facilities including distribution centers, manufacturing plants, and corporate offices to the state of Nebraska

30. (PI) National Science Foundation - RET Supplement, I/UCRC CELDi, 07/14/2006-07/13/2007. This application by Dr. Erick Jones requests Research Experiences for Teachers (RET) supplement funding for "NSF I/URC CELDi at the University of Nebraska-Lincoln" (NSF Award #0540211). At UNL's CELDI Center, there are two research opportunities that would positively engage K-12 science educators

31. (PI) National Science Foundation - REU Supplement, I/UCRC CELDi, 02/28/2006-02/27/2007. This proposal seeks support for undergraduates to participate in the Research Experiences for Undergraduates program (NSF03-577). Two research opportunities have been identified that would positively engage potential REU candidates. The scope of the project focuses on the validation of RFID technologies that will operate in the International Space Station (ISS). The RFID technologies have been described to have the ability to track inventory more efficiently than other current technologies. The recent news coverage that demonstrated the ISS lack of knowledge about consumable products has created a need to better track inventory at the ISS. This research seeks to investigate this emerging technology of RFID as a plausible solution.

32. (PI) National Science Foundation (NSF), Industry /University Cooperative Research Center (I/UCRC) as part of the Centers of Engineering Logistics and Distribution (CELDi), at the University of Nebraska-Lincoln, 08/31/2005 - 08/30/2007. This research is innovative from the perspective that relatively few investigators have pursued studies designed specifically for current realities in logistics. The intellectual merits of this research are the development of new inventory control models, transportation network design strategies and models, and facility location methodologies relevant for next generation logistical systems. The broader impacts are

after a successful compilation of these studies we will provide new tools with which companies and researchers can have more success in integrating RFID technology into distribution and logistics. Further, these models will enable smaller companies with limited resources to explore benefits of new technology for their logistical operations. Further, the strength of having three representative CELDI Universities focused on expanding the research applications with this enabling technology, and providing examples of how to implement in real-world applications is a powerful way of supporting the NSF I/URC vision. The vision is fulfilled with Universities providing support to industry in defining research that can be applied to projects that assist companies in improving and becoming more profitable and efficient.

33. (PI) City of Houston Health and Human Services Department, "Inventory Reduction Research Project", 04/22/2005 - 04/21/2006. The objective of this engagement is to benchmark, evaluate, and document recommendations for an effective approach purchasing and implementing an Integrated Health Care System. The Integrated Health Care System (IHCS) evaluation will asses current information technology (IT) systems and recommend where new technologies can improve and enhance current operations.

34. (PI) NASA and Barrios Technology, "Using RFID Technology to track consumables products for the NASA Space Station", 04/22/2005 - 04/21/2006. This project investigates the use of Radio Frequency Identification (RFID) technologies as a Real-Time Location System (RTLS) in order to minimize the amount of astronaut time that is spent taking inventory and managing stowage logistics onboard the International Space Station (ISS). The proposed RFID based RTLS system will be integrated and possibly enhance with the existing Inventory Management System (IMS) tools used by NASA to keep track of inventory in space.

35. (PI) Alfred P. Sloan Foundation "Increasing PhDs for Underrepresented Minorities Program, University of Nebraska Program", awarded 9/23/2007, $ 28,000 student fellowship $ 2,000 administrative grant (1 student awarded: Dwight Mosby). There is currently no accurate information on the retention statistics of underrepresented minorities at the University of Nebraska. This proposal request that the Sloan Foundation use the retention statistics across all of the other Sloan underrepresented programs of 80%.

36. (PI) Alfred P. Sloan Foundation "Increasing PhDs for Underrepresented Minorities Program, University of Nebraska Program", awarded 9/23/2007, (1 student awarded: Meredith Ross - Industrial Engineering). There is currently no accurate information on the retention statistics of underrepresented minorities at the University of Nebraska. This proposal request that the Sloan Foundation use the retention statistics across all of the other Sloan underrepresented programs of 80%.

37. (PI) NASA EPSCOR , "Using RFID Technology to track consumables products for the NASA Space Station", 01/24/2005- 01/23/2006. This project investigates the use of Radio Frequency Identification (RFID) technologies as a Real-Time Location System (RTLS) in order to minimize the amount of astronaut time that is spent taking inventory and managing stowage logistics onboard the International Space Station (ISS). The proposed RFID based RTLS

system will be integrated and possibly enhance with the existing Inventory Management System (IMS) tools used by NASA to keep track of inventory in space.

38. (PI) National Science Foundation, Planning Grant for Industry /University Cooperative Research Center (I/UCRC) as part of the Centers of Engineering Logistics and Distribution (CELDi), at the University of Nebraska-Lincoln, 09/13/2004- 09/12/2005. Center for Engineering and Logistics Distribution (CELDi) works in the umbrella of I/UCRC to promote research in the areas of supply chain and logistics. UNL's effort will be carried out under the umbrella of UNL's newly established Center for RFID (Radio Frequency Identification) & Supply Chain Logistics (RSCL).

39. (PI) City of Houston Public Works Department, Supply Chain Inventory Reduction Research Project, 08/12/2004 through 08/11/2005. The objective of this engagement is to benchmark, evaluate, and document recommendations for an effective approach purchasing and implementing an Integrated Health Care System. The Integrated Health Care System (IHCS) evaluation will asses current information technology (IT) systems and recommend where new technologies can improve and enhance current operations.

40. (PI) NASA EPSCOR Travel Grant, 05/13/2004 through 05/12/2005. This project investigates the use of Radio Frequency Identification (RFID) technologies as a Real-Time Location System (RTLS) in order to minimize the amount of astronaut time that is spent taking inventory and managing stowage logistics onboard the International Space Station (ISS). The proposed RFID based RTLS system will be integrated and possibly enhance with the existing Inventory Management System (IMS) tools used by NASA to keep track of inventory in space.

2.2.3 External Research Grants Submitted

1. (PI) "Drug Confirmation for Infectious Diseases using RFID," R01 proposal, NIH-NIBIB, submitted 06/05/2011, resubmitted 12/12/2011. Our research builds upon existing standards and protocols that are advantageous for many health supply chain with benefits including identification of counterfeit drugs and confirmation of regimented drugs to contagious patients. The expected significance of this research is to demonstrate the potential for "RFID" based automated monitoring (RfBAM) systems to improve the patient drug intake confirmation process through engineering controls. Understanding the impacts of this technology may lead to reduction of associated costs with manual confirmation of required drug regiments for tuberculosis patients.

2. (PI) "Prevention of Drug Abuse using Radio Frequency Identification (RFID)," R01 proposal, National Institutes for Drug Abuse (NIDA) submitted 10/28/2011
In this proposal, we seek to investigate the feasibility of RFID based systems to confirm drug usage for controlled drugs. This research is conducted at the SMART hospital in consultation with a medical doctor from a primary healthcare provider in the Dallas-Fort Worth (DFW) area. In this research, we envision automatic drug confirmation at the package level and eventually at the ingestion level as a mechanism to control drug abuse and improve the safety of human life. We seek to develop a cost effective automated engineering approaches and increase life expectancy without additional costs

3. (PI) "CSR: Medium: Collaborative Research: Mobile RFID Warehouse Management System Using Cloud Computing" National Science Foundation (NSF), submitted 09/15/2011. The purpose of this research proposal is to investigate a RFID based WMS (R-WMS) application for mobile devices, including smart phones (such as iPhone, Android, Microsoft Mobile Phone, HTC smart phone, Blackberry, etc) and other handhold smart devices (such as iPad and some light/portable Tablet PC) exchanging real-time information through the cloud which is using optimized scheduling algorithms to make near optimal decisions and send information back in an acceptable time period. In order to research these possibilities, there is a need to investigate the capacity and dynamic adjustment of workloads for reducing costs and saving energy. Further development of a mobile application of such data intensive operations necessitates exclusive data manipulating techniques to provide the most critical information for decision makers.

4. (PI) "Improve Patient Safety by Reducing Medication Errors using Automated Technology," R01 proposal, Agency for Healthcare Quality and Research (AHRQ), submitted 06/05/2011. The objective of this proposal is to develop a system to monitor the medications of the patients automatically. The drugs will be packed in RFID tag enabled packaging. When the drugs enter the patient room the RFID system will acquire the information from the tag which resides in the drugs packaging. The system will check immediately against the patient information to verify that the drug entered the patient room is the prescribed drug, right dosage and correct time for the medication. If the information from the tag in the drug packaging and the patient record matches a green light will be displayed or a red light will be displayed. If the drugs packaging is broken the RFID system register it as the patient has taken the medication

5. (PI) "ARI-MA: Evaluating the impacts of detecting hazardous events in transit with AutoID technologies," NSF-ARI, Submitted 05/23/2011.
Investigate the fundamental research question "Are multi-modal automatic identification (MMAID) technology capable of MONITORING the movement of low dose radiation and effectively DETECTING and COMMUNICATING the changing environmental variables including temperature, and humidity with LaF_3: Ce/ $Y_3Al_5O_1$: Ce nanocomposite scintillators to prevent catastrophic events?"

6. (PI) "RFID Technology Feasibility Analysis of Pharmaceutical Drugs in a Zero Gravity Environment," NASA Innovative Advanced Concepts (NIAC) Submitted 04/29/2011.
This proposal investigates the feasibility of radio frequency identification technologies as a means to monitor and confirm the use medical supplies and eventually drugs in a Zero Gravity Environments that would support telemedicine in deep space missions. The vision of this research is to investigate RFID technologies as a mechanism to track, trace and monitor medical CTBs, cases, supplies, packaging and eventually pills usage by astronauts on space on the International Space Station, ISS and other future space missions. Previously the PI worked with NASA JSC engineers and contractors to test and integrate RFID technologies with consumables to establish ¿crew free inventories on-board the ISS. The goal of this NIAC proposal is to extend this research to tracking important medical supplies and drugs through the work of a talented group of multi-disciplinary researchers¿ from a diverse group of academic institutions and laboratories.

7. (Co-PI) "Use of Six-Sigma Method to improve Healthcare Quality" NIH-AHRQ submitted 01/26/2011.
   The intent is to investigate the impact of using Automatic Identification Technologies (AIT) such as Radio Frequency Identification (RFID), and Barcodes to reduce medical errors and more specifically medication errors. This project seeks to use new technology for alleviating the risks and hazards encountered by patients as a result of health care

2.3 Research Patents and Awards

2.3.1 National and International Research and Recognition

1. American Society of Engineering Management Charter Member,
2. Alfred P. Sloan Underrepresented Minority PhD Program Fellow, 2001
3. NACME Undergraduate Award, 1990, 1991, 1992
4. 1988 Presidential Achievement Award (Undergraduate), 1988-1992

2.3.2 Regional and Local Research Awards and Recognition

1. Innovative Use of Instructional Technology Teaching Award, UNL, 2007
2. College of Engineering Teaching Award Assistant Professor, UNL, 2007
3. College of Engineering Service Award Assistant Professor, UNL, 2006
4. College of Engineering Research Award Assistant Professor, 2006

3. Teaching Accomplishments

Category	**Number of Students**
PhD Students Advised	2
PhD Students Advising	5
PhD Students Committee	3
MS Thesis Students Advised	22
MS Thesis Students Advising	0
MS Students Committee	4
Undergraduate Students Funded	16
TOTAL	**52**

Total Number of Students Supported – Men and Women

	Undergraduate	**M.S. Students**	**Ph.D. Students**
Women	3	7	1
Men	13	15	4
Total	**16**	**22**	**5**

Total Number of Students Supported – Ethnic Groups

	Undergraduate	**M.S. Students**	**Ph.D. Students**
African American	1	2	2
African	0	0	0
Hispanic American	1	1	0

South American	0	2	0
Chinese	2	7	1
Indian	0	4	2
Iranian	0	0	0
Caucasian	12	4	0
Others	0	2	0
Total	**16**	**22**	**5**

3.1.1 PhD Students Supervised

1. Dwight Mosby Graduation Date: December 2010
   Advisement began: 2004 Co-Chair with Aemal Khattak, Civil Engineering
   Dissertation Title: "Embedded Radio Frequency Identification Device License Plates for Roadside Use in Nebraska"
   Funding: CVISN

2. Vettrivel Gnaneswaran Graduation Date: December 2010
   Advisement began: 2010 Co-Chair with Dr. Ramaratnam Ram Bishu Industrial Engineering
   Dissertation Title: "Force Endurance Model for Pencil Hold Task"
   Funding: CVISN

3.1.2 PhD Students under Supervision

1. Shernette Kydd Expected Graduation Date: May 2013
   Advisement began: 2011
   Thesis Title: "Investigating the using modified Multi-variable analysis instead of Design of Experiments for RFID technology performance analysis"
   Funding: Self

2. Restu P. Sunarto Expected Graduation Date: May 2013
   Advisement began: 2011
   Thesis Title: "Investigating the Optimization of pick pack routing on distribution center layout"
   Funding: TMAC

3. Gowtham Anantakrishnan Expected Graduation Date: May 2012
   Advisement began: 2009
   Thesis Title: "Optimization of Hospital RFID RTLS System for Apple i-phone Applications"
   Funding: CVISN/Startup

4. Maurice Cavitt Expected Graduation Date: May 2014
   Advisement began: 2009
   Thesis Title: "Investigating the Development of Micro Antennas for Nano MEMS Chips for Standard RFID frequencies"
   Funding: UNCF/ Startup/ Sloan/ GANN

5. Liyuan Zhang — Expected Graduation Date: May 2012
   Advisement began: 2009, CO-Chair with Dr. Michael W. Riley, IMSE UNL
   Thesis Title: "Multi-Objective model for evaluating procurement practices that impact supplier quality in Supply Chains based out of China"
   Funding: Self/ CVISN

6. Nancy(Dejing) Kong — Expected Graduation Date: May 2012
   Advisement began: 2009, CO-Chair with Dr. Michael W. Riley, IMSE UNL
   Thesis Title: "Economic Impact to the State of a Graduate Degree"
   Funding: Self/CVISN

3.2.1 MS Students (Thesis Option) Supervised

1. Angela Garza — Graduation Date: December 2010
   Advisement began: 2009
   Thesis Title: "Innovating Continuous Review Policies with RFID"
   Funding: Sloan/GANN/ NASA

2. Maurice Cavitt — Graduation Date: December 2010
   Advisement began: 2009
   Thesis Title: "Evaluating Inventory Replenishment Speed in Healthcare Organization"
   Funding: GANN/ NASA

3. Liyuan Zhang — Graduation Date: December 2010
   Advisement began: 2009
   Thesis Title: "Comparison of Classical Analytic Hierarchy Process (AHP) Approach and Fuzzy AHP Approach in Multiple-Criteria Decision Making for Commercial Vehicle Information Systems and Networks (CVISN) Project"
   Funding: CVISN

4. Nancy(Dejing) Kong — Graduation Date: December 2010
   Advisement began: 2009
   Thesis Title: "Using a Quality Based Analytic Hierarchy Process To Do Decision-making Analysis in Transportation"
   Funding: CVISN

5. Jian Han — Graduation Date: May 2012
   Advisement began: 2009
   Thesis Title: "Evaluation of optimization algorithms for improvement of a transportation company's (in-house) vehicle routing system"
   Funding: Self/Werner/CVISN

6. Jairo de Jesus — Graduation Date: December 2010
   Advisement Began 2006
   Thesis Title "A Predictive Modeling for Water Consumption and Waste Water Flow Management for a Food Processing Manufacturer"

Funding: Farmland/Self

7. Rama Thummalapalli Graduation Date: August 2010
   Advisement began: 2007
   Thesis Title: "Using Six Sigma to Implement Bioinformatics for Health and Human Service Departments"
   Funding: Self /VA Hospitals

8. Olabode Alabi Graduation Date: August 2009
   Advisement began: 2007
   Thesis Title: "RFID and RTLS Predictive Location Modeling"
   Funding: Self

9. Jane Silveray Graduation Date: May 2009
   Advisement began: 2006
   Thesis Title: "Economic Evaluating of RFID Implementation at a Retail Store"
   Funding: Self /NASA

10. Kelli Kopocis Graduation Date: May 2009
    Advisement began: 2006
    Thesis Title: "An Evaluation Of The Effectiveness Of Radio Frequency Identification On Mechanical Contracting Jobsites"
    Funding: Self /MCAA/NASA

11. Casey Richards Graduation Date: May 2009, Co-Adviser Michael W. Riley
    Advisement began: 2007
    Thesis Title: "Using Multi-Criteria Decision Analysis to Select the Most Effective Best Practices for Loading Flatbed Semi Trailers"
    Funding: NASA

12. Rodrigo Franco Graduation Date: December 2008
    Advisement began: 2006
    Thesis Title: "Multi-objective Stochastic Supply chain modeling with Imperfect Quality Suppliers"
    Funding: NASA

13. Faye (Xiaofei) Gao Graduation Date: December 2007
    Advisement began: 2005
    Thesis Title: "Measuring the Impact of RFID technologies on Facility Design"
    Funding: NASA

14. Jing Yang (Paul) Pei Graduation Date: August 2007
    Advisement began: 2005
    Thesis Title: "Inventory Control in Serial Systems Using RFID"
    Funding: City of Houston

15. Selvia Androus Graduation Date: August 2007
    Advisement began: 2004
    Thesis Title: "Cognitive Turnover Predictive Model Differences Between Knowledge Workers and Production Workers"
    Funding: City of Houston/ Covidian

16. Tim Farnham Graduation Date: December 2006
    Advisement began: 2004
    Thesis Title: "Six Sigma Practices: A Methodology to Determine Successful Six Sigma Implementation Characteristics"
    Funding: NASA

17. Satish Oswal Graduation Date: May 2006
    Advisement began: 2004
    Thesis Title: "A Mathematical Model to Identify Pre-Turnover Mindset in Employees in Organizations and Students at Universities"
    Funding: City of Houston

18. Bharath Swaminthan Graduation Date: May 2005
    Advisement began: 2004
    Thesis Title: "Developing Collaborative Supply Chain Model for a Part-Finishing Company Using Dell's Model"
    Funding: Self

19. Gowtham Anantakrishnan Graduation Date: May 2005
    Advisement began: 2003
    Thesis Title: "A Comparative Study on the Effectiveness of Computer Based Training on Training Personnel on Radio Frequency Identification (RFID)"
    Funding: City of Houston

20. Josephine A. Hain Graduation Date: December 2004
    Advisement began: 2003
    Thesis Title: "A Methodology to Study the Behavior Skills of the Successful Project Manager"
    Funding: City of Houston

3.2.2 MS Students (Thesis Option) under Supervision

NONE

3.2.2 MS Students (Non-Thesis option) supervised

1. Hamid Ghorashi Graduation Date: December 2012
   Advisement began: 2011
   Non-Thesis Project: "Reliability of RfBAM Systems for Home Healthcare"
   Funding: NSF-IRES

2. Shin-Chiann Han Graduation Date: December 2011

Advisement began: 2011
Non-Thesis Project: "Process Flow Improvement at TRW"
Funding: NSF-IRES

3. Mehmet Ufuk Eren Graduation Date: May 2006
Advisement began: 2005
Non-Thesis Project: "RFID in Rail Car Tracking"
Funding: Self

4. Yan (Jerry) Tie Graduation Date: August 2007
Advisement began: 2005
Non-Thesis Project: "School Enrollment Forecasting Using ARIMA Models"
Funding: City of Houston

3.3.1 Undergraduate Students Supervised

1. Chidebe S Ugoji Summer and Fall 2011, B.S. Ind. Eng., NSF- IRES grant
2. Mohammed Siddiqui Summer and Fall 2011, B.S. Ind. Eng., NSF- IRES grant
3. Juan Robles Summer and Fall 2011, B.S. Ind. Eng., NSF- IRES grant
4. Jithin Daniel Summer 2011, B.S. Ind. Eng., NSF- IRES grant
5. Nathan Kent Heng Fall 2010, B.S. Ind. Eng., NASA grant
6. Andrea Henery Fall 2010, B.S. Ind. Eng., NASA grant
7. Mike Mummagh Summer and Fall 2010, B.S. Ind. Eng., NASA grant
8. Antonio Contreras Summer and Fall 2010, B.S. Ind.Eng, NASA grant, Graduated Dec 2010
9. William Frendrick Summer 2010, B.S. Ind.Eng, NASA grant
10. Lindsay Exstrom 2009-2010, Graduated Dec 2009, B.S. Ind. Eng, UCARE grant
11. Brett Miller 2006-2007, Graduated Dec 2007, B.S. Ind.Eng, UCARE grant
12. Olabode Alabi 2005-2006, Graduated May 2007, B.S. Elec. Eng, UCARE Grant
13. Chet Henry Spr. 2006, Graduated May 2007, B.S. Comp. Eng, REU Grant
14. Thomas Ralston Fall 2006, Graduated May 2006, B.S. Elec. Eng, Work Study
15. Nick Lovelace 2005-2006, Graduated May 2006, B.S. Elec .Eng, REU Grant
16. Matt Johnson 2005-2006, Graduated May 2006, B.S. Elec. Eng, REU Grant
17. Adam J. Rogers 2004-2006, Graduated May 2006, B.S. Biology, REU Grant

3.3.2 Undergraduate Research Projects

1. Lindsay Exstrom - UCARE, "Silo Windmill Energy Development," $2,000, 06/01/2007 through 07/31/2008.

2. Brett Miller - UCARE, "Using RFID as a Locator System Instead of GPS," $1,500, 06/01/2007 through 07/31/2008.

3. Ik Hou Loh - UCARE, "Using RFID as a locator system for trucking and rail cars," $2,000, 06/01/2007-07/31/2008.

4. Olabode Alabi - UCARE, "Applications of RFID Systems," sponsoring undergraduate, $2,400, 06/01/2006 through 07/31/2007.

5. Brett Miller - UCARE, "Using RFID as a Locator System Instead of GPS," sponsoring undergraduate, $2,000, 06/01/2006 through 07/31/2007.

6. Brandy Keithly and Adam Rogers - UCARE, "Using Industrial Engineering Tools to improve student attrition," $2,000, 06/01/2005 through 07/31/2006.

7. Tai Burleson - UCARE, "Using Industrial Engineering Tools to improve student attrition," $2,000, 06/01/2004 through 07/31/2005.

3.4. Graduate Students Advisory Committee

Ph.D. Candidates

1. Charoensri Surachai "The Equivalence and Generalization of Optimization Criteria", Chair: Bill Corley, Graduated, August, 2011, PhD Industrial and Manufacturing Systems Engineering, University of Texas Arlington, Arlington, TX

2. Goh Saito, "Constraint Optimal Selection Techniques (COSTs) for Linear Programming Problems", Chair: Bill Corley, Graduated, May 2011, PhD Industrial and Manufacturing Systems Engineering, University of Texas Arlington, Arlington, TX

3. Meredith Tabitha Ross, The Effectiveness of Team Training on Problem Based Learning in Engineering Management, Chair Stephanie Adams, Graduated May, 2008, PhD Industrial and Management Systems Engineering, University of Nebraska-Lincoln, Lincoln, NE

M.S. Candidates

1. Jaikrit Kandari, MSIE, Information Quality on the World Wide Web: A User Perspective, Chair Ram Bishu, completed December, 2010.

2. Tony Williams, MSIE, Evaluation of Six Sigma, Chair Stephanie Adams, Chair Stephanie Adams, completed May, 2004.

3. Rajesh Uttamchandani, MSIE, Evaluation of Training Method for Operations of Complex Machines, Chair Ram Bishu, completed May 2005.

4. Shuvra Ghosh, MSIE, Analysis of IVA Tasks and Development of a Software Tool for Mission Planning, Chair Ram Bishu, completed May, 2005.

3.5. Other, Student Teaching Evaluation Data

The following table provides information relating to courses taught and the students' numerical evaluation of professor effectiveness. Evaluations are based on a 4.0 and 5.0 scale. Departmental average is provided for comparison.

Course	Term	Student Enrollment	Departmental Average	Evaluation Average
IMSE 996/901	Fall (03)	4	3.29	3.39
Total Quality Management Using	Fall (04)	8	3.06	3.17

Six Sigma Techniques	Fall (05) Fall (07) Fall (08) Fall (09) Fall (10)	8 15 6	3.16 4.17 4.18	2.83 4.03* 4.53
IMSE 996A/901 I Total Quality Management Using Six Sigma Techniques (O)	Fall (05) Fall (06) Fall (07) Fall (08)	4 1 9 9	3.16 4.11 4.17 4.18	2.62 3.99* 3.45* 4.15
IMSE 498/998/881 Logistics Optimization Modeling	Fall (06)	8	4.02	3.82*
IMSE 498/998/881 Logistics Optimization Modeling (O)	Fall (08)	7	4.18	3.71*
IMSE 050 Introduction to Industrial Engg.	Fall (06) Fall (07)	16 13	4.02 4.17	4.13* 3.82*
IMSE 334 Production Planning	Spring(04)	3	3.28	3.05
IMSE 434 Facilities Planning	Spring(04) Spring(07) Spring(08) Spring(09)	4 16 11 15	3.28 4.17 4.20 4.20	3.18 3.03* 3.75* 4.20
IMSE 984 Industrial Systems & Analysis	Spring(04)	8	3.28	3.17
IMSE 475/875 Manufacturing Systems II	Spring(03) Spring(05) Spring(06)	6 / 3 7 / 3 8	3.29 4.14 4.11	3.29 3.47* 4.07*
IMSE 498/898 RFID in Logistics *	Spring(06) Spring(07) Spring(08) Spring(10) Spring(10)	11 13 10 24 *32	4.11 NA 4.20 NA *NA	4.11* 3.13 3.83* NA *NA
IMSE 461/861 RFID in Logistics(O)	Spring(09) Spring(10)	10 5	4.20 NA	4.20* NA
IMSE 305 Introduction to Engg. Management	Fall(10)	24	NA	NA
IE 5300 RFID in Logistics	Spring (11)	22		4.6
IE 5329 Production and Inventory Control	Fall (11)			

Evaluations are based on a 5.0 scale are shown with *, (O) = Online

4. Other Teaching Accomplishments

4.1 Professional Service

4.1.1 Journal Editorships

1. *Associate Editor* – International Journal of Six Sigma and Competitive Advantage, 2011-Present
2. *Associate Editor* - International Journal of Radio Frequency Identification Technology and Applications, 2011 - Present
3. *Editor* - Journal of Engineering Education Simulators, 2004 through 2006

4.1.2 Leadership Positions in International and National Organizations

1. *Chair* – ISCEA International Standards Executive Board Technology Committee
2. *UTA Site Director* – Alfred P. Sloan Minority PhD Program, 2011to Present
3. *Nebraska Site Director* – Alfred P. Sloan Minority PhD Program, 2004 to 2010
4. *Chair* - International Supply Chain Education Alliance(ISCEA) RFID Certification Committee, 2007
5. *Division Chair*- American Society of Engineering Educators, Engineering Management Division, 2007 through 2008
6. *Program Chairperson*-American Society of Engineering Educators, Engineering Management Division, 2006 through 2007
7. *Treasurer*-American Society of Engineering Educators, Engineering Management Division, 2005through 2006
8. *Secretary*-American Society of Engineering Educators, Engineering Management Division, 2004 through 2005

4.1.3 Leadership Positions in Regional and Local Organizations

1. *Executive Chair* - Texas A&M Former Black Students Network, first Chair, 2003 through 2005
2. *Senior Chapter President* – Institute of Industrial Engineers, Houston, TX Chapter, 1993-1996

4.1.4 Memberships in Professional Organizations

Present Memberships

1. Association for Automatic Identification and Mobility (AIM)
2. DASH 7 Alliance
3. American Society of Engineering Educators (ASEE)
4. National Society of Black Engineers (NSBE)
5. Texas A&M University Association of Former Students
6. Texas A&M University Black Former Student Network (BFSN)
7. Institute of Industrial Engineers (IIE)
8. American Society of Quality (ASQ)
9. Alpha Phi Alpha Fraternity, Incorporated

Past Memberships

1. American Society of Engineering Management (ASEM)
2. Warehouse Education and Research Council (WERC), Member
3. Big Brothers and Sisters of Houston

4.1.5 Research Review Panels

1. *Reviewer* – Annals of Operations Research, Jun. 2011 - Present
2. *Program Evaluator* – ABET Accreditation Program, Apr. 2011
3. *Proposal Reviewer*-NSF CSR: Small 2011 Clod Computing, Mar. 2011

4. *Reviewer*- Alfred P. Sloan, College Infrastructure Programs, Jun 22, 2006
5. *Proposal Reviewer*-NSF SBIR/STTR Phase I SS: Consumer Applications; Feb. 25, 2009
6. *Proposal Reviewer*-NSF SBIR/STTR Phase I SS: SBIR/STTR Phase II: Enterprise Applications; Oct. 25, 2006
7. *Proposal Reviewer*-NSF SBIR/STTR Supply Chain Management, Sensor Networks; Feb. 24, 2005
8. *Proposal Reviewer*-NSF REU, Research Experiences for Undergraduates, Dec. 2005
9. *Proposal Reviewer*-NSF SBIR/STTR Mechanical Panel Proposal Nov. 28, 2005
10. *Proposal Reviewer*-NSF Enterprise Systems: Supply Chains, Logistics and Transportation; Dec. 1, 2005
11. *Reviewer*-American Society of Engineering Educators, Engineering Management Division
12. *Proposal Reviewer*-NSF Math Science Partnership Panel, Jul 2002

4.2 University Service

4.2.1 Membership Positions on University Wide Committees

1. *Member*, Search Committee, Vice President for Research, 2011
2. *Member*, UNL, University Marshal Corp, 2008 - 2010
3. *Member*, Search Committee, Nebraska College Prep Academy Coordinator, 2008
4. *Member*, Search Committee, Honors Recruitment Coordinator, 2008
5. *Member*, Search Committee, Multicultural Recruitment Coordinator, 2008
6. *Member*, Search Committee, Intellectual property specialist, 2005

4.3 College Service

4.3.2 Membership Positions on College Wide Committees

1. *Member,* Awards Committee, Fall 2011
2. *Member,* Search Committee, Communications Manager, Spring 2007
3. *Member,* Research Advisory Committee, 2006
4. *Member,* Search Committee, Communications Manager, Spring 2006
5. *Member,* Search Committee, Program Specialist, Spring 2005
6. *Member,* Search Committee, Web Developer, Fall 2005

4.4 Unit Service

4.4.1 Leadership Positions on Unit Committees

1. *Advisor,* National Society of Black Engineers, 2004- Present
2. *Chair,* Logistics Certification Program Committee, 2007 - Present
3. *Chair,* Six Sigma Black Belt/Green
4. Belt Program Committee, 2006-Present
5. *IE Representative,* NUBE Camp, Summer 2006

4.4.2 Membership Positions on Unit Committees

1. *Member*, Graduate Committee, Spring 2007 – Present
2. *Member*, Faculty Search Committee, Spring 2007