



# Pamela McCauley, Ph.D., C.P.E.

## Industrial Engineering and Management Systems

University of Central Florida

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### Areas of Expertise:

- Biomechanical Engineering
- Biomechanics of Injury
- Ergonomics Engineering
- Human Factors
- Industrial Accidents
- Industrial Engineering
- Product Liability
- Safety Engineering

### Profile/ Professional Experience:

Dr. Pamela McCauley holds a Ph.D., M.S., and B.S. in Industrial Engineering. She is a full Professor of Industrial Engineering and Director of the University of Central Florida Ergonomics Laboratory. Dr. McCauley is also the president of T-STEM Inc., providing expert witnessing in the areas of product liability, biomechanics, ergonomics, human engineering, human factors, and occupational safety. Dr. McCauley previously served on the faculty of the Massachusetts Institute of Technology in the Humans and Automation Division of the Department of Astronautics and Aeronautics where she focused on human factors issues in aeronautic applications. Dr. McCauley has over 80 technical publications including an ergonomics textbook, which has been adopted by universities worldwide. Dr. McCauley is an experienced expert witness with over 20 years of experience as a professor, researcher and practitioner in human factors, biomechanics and ergonomics research applications.

### Education:

Ph.D. Industrial Engineering, University of Oklahoma, May 1993

M.S. Industrial Engineering, University of Oklahoma, December 1990

B.S. Industrial Engineering, University of Oklahoma, May 1988

CPE Certified Professional Ergonomist

### Awards:

- 2015 - 2016 Jefferson Science Fellow, U.S. State Department
- 2015 Black Engineer of the Year Educational Leadership Award
- Fulbright Specialist Award, U.S. Fulbright Scholar Program, New Zealand, August, 2012
- Distinguished Alumni Award from the University of Oklahoma
- 2007 Engineer of the Year, Florida Engineering Society
- 2006 Engineering Educator of the Year, Society of Women Engineers

### Book Publications:

- McCauley Bush, P., "Ergonomics: Foundational Principles, Applications and Technologies", Taylor & Francis, CRC Press (2011) 331 pages
- McCauley Bush, P. Transforming your STEM Career through Leadership and Innovation: Inspiration and Strategies for Women, Elsevier Publishers, NY, NY (November, 2012) , 182 pages
- McCauley, P., "Essentials of Engineering Leadership and Innovation", Taylor & Francis, CRC Press (December, 2016), 234 pages