

Jessica L. (Buck) Murphy, Ph.D.

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Industrial Systems and Technology Program-Jackson State Uni.
Jackson, MS 39217
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OBJECTIVE: Exceptionally dedicated professor and researcher with a superb record of student satisfaction and scholarly achievement. Expertise in developing and enhancing program curriculum requirements for a diverse student population. Provide leadership in academic programs and organizations. Able to function well independently and in coordination with other academic faculty and staff members to accomplish the mission of the organization.

EDUCATION & CERTIFICATIONS:

Lean Six-Sigma Green Belt (Certification) **October 2017**
Association of Technology, Management, & Applied Engineering Raleigh, NC
Certification Number: 7143

Doctor of Philosophy in Technology -Education/Instructional Tech Sys. **May 2004**
Mississippi State University Starkville, MS

Major: Technology (with emphasis in Education)
Minor: Community College Leadership

Masters of Science in Technology **May 2001**
Mississippi State University *Starkville, MS*

Major: Technology
Emphasis: Industrial and Instructional Systems Technology

Bachelors of Science **May 1998**
Alcorn State University *Lorman, MS*

Major: Industrial Technology
Emphasis: Computer Aided Drafting and Design

EXPERIENCE:

JACKSON STATE UNIVERSITY **Jackson, MS**
DEPARTMENT OF INDUSTRIAL SYSTEMS & TECHNOLOGY
08/2017 to present

(Professor-Tenured- Program Director for Tech Ed Master's Degree Program)

- Director of the Emergency Management Technology's Community Resilience/Weather-Ready project (approximately \$1,000,000 in grant awards for mitigation and preparedness)
- Advise undergraduate and graduate students in the programs: Technology Education and Emergency Management Technology

- Coordinate and supervise Emergency Management service-learning projects with community entities (5% of Emergency Management courses are service-learning)
- Coordinator of Emergency Management student internships with local Emergency Management Agencies.
- Lead recruitment and efforts to increase Technology Education enrollment (increased by 10-15%)
- Serve as a recruiter for Emergency Management Technology undergraduate program
- Instruct graduate and undergraduate level courses in Technology Education and Emergency Management Technology
- Revise Technology Education program course descriptions
- Review graduate applicant requests and files and make recommendations for program admittance
- Review graduate requests for graduation and ensure requirements are met
- Develop course-related questions and administer Graduate Area Comprehensive Examination (GACE) (98% pass rate-first time given)
- Serve on Ph.D. dissertation committees (external member)
- Serve as Emergency Management Technology Program Recruiter and Scholarship Chair
- Advisor to technology student/professional organization (Epsilon Pi Tau Technology Honorary)
- Serve as "Person of Contact" (Faculty Liaison between accrediting body and institutions' department) for accreditation to develop accreditation self-study reports and assessments

08/2012 to 08/2017

(Associate Professor-Tenured/Program Coordinator for Tech Ed Master's Degree Program)

- Instructed graduate and undergraduate level courses in Technology Education and Emergency Management Technology
- Advise undergraduate and graduate students on the program of study
- Reviewed and revised technology education master-level curriculum; converted course classes to online or hybrid
- Develop course-related questions and administered Graduate Area Comprehensive Examination (GACE)
- Served on Ph.D. dissertation committees (external member)
- Served as Emergency Management Technology Program Recruiter
- Assisted in developing Emergency Management Technology curriculum and course content
- Served as Advisor to technology student/professional organization (ATMAE and EPT)
- Organized external technology advisory board with industrial, governmental, educational, and corporate reps. (2012-2014)
- Coordinate outreach and facilitate partnerships with targeted secondary institutions and Community Colleges
- Coordinated service-learning projects between technology students and local entities
- Worked with graduate students on research projects (conference proposals, papers, and journal entries)

JACKSON STATE UNIVERSITY
DEPARTMENT OF TECHNOLOGY
08/2006 to 08/2012

Jackson, MS

(Assistant Professor: Tenured-Track)

- Instructed graduate and undergraduate level courses in Technology Education, Technology Management, and Emergency Management Technology
- Advised undergraduate and graduate students on the program of study

- Advised undergraduate and graduate students organizations (ATMAE, EPT, and SME)
- Coordinated service-learning projects between technology students and local entities
- Worked with graduate students on research projects (conference proposals, papers, and journal entries)

**MISSISSIPPI DEPARTMENT OF EDUCATION
MANAGEMENT INFORMATION SYSTEMS**

Jackson, MS

02/2005 to 08/2006

(Information Technology Planner/Web Administrations Manager)

- Administered web presence for the Mississippi School Districts
- Designed web pages on the MDE website
- Managed and maintained servers hosting the websites
- Developed and managed databases
- Installed and managed List Serve systems for MS State Superintendents and Principals
- Assisted with computer networking and troubleshooting

GRANTS AWARDS FUNDED:

1. U. S. Dept. of Homeland Security-Center for Coastal Resilience: Community Resilience Project at JSU (2021/2022)—**Funded; \$50,00—Grant# G634B89 (PI)**
2. U. S. Dept. of Homeland Security-Scientific Leadership Award: Community Resilience Engaging Advanced Training and Education (CREATE) JSU (2021)—**Funded; \$469,925—Award# 21STSLA000010-01-00 (PI)**
3. National Science Foundation- HBCU: UP Target Infusion Project: Females Advancing Science & Technology (FAST) (2020)—**Funded; \$399,808—Award# 2011284 (Co-PI)**
4. U. S. Dept. of Homeland Security-Center for Coastal Resilience: Community Resilience Project at JSU (2020)—**Funded; \$43,703—Grant# G634B89 (PI)**
5. U. S. Dept. of Defense-Research and Education Program/HBCU/MI Equipment/Instrumentation-Acquisition of Aerosol Particle Analyzers for Interdisciplinary, Collaborative Research and Education in Biomedical Engineering Program at Jackson State University (2016)—**Funded; \$470,046-- BAA-HECULMI (Senior Faculty Personnel)**
6. U. S. Dept. of Homeland Security- Minority Serving Institution Scientific Award (Phase II) (2015)—**Funded; \$ 388,663—Award# 2014-ST-062-00056 mod 1 (Co-PI)**
7. U. S. Dept. of Homeland Security- Minority Serving Institution Scientific Award (2014)—**Funded; \$589,000—Award# 2014-ST-062-00056 (Co-PI)**
8. U. S. Dept. of Homeland Security- Career Development Scholarship Program (2011)—**Funded; \$199,984—Award# 2011-ST-104-000039 (Co-PI)**
9. U. S. Dept. of Homeland Security- Higher Education Emergency Management Grant (2010)—**Funded; \$428,503—Award# 2009-ST-062-000021 (Co-PI)**

GRANT AWARD CONTRIBUTOR:

10. U.S. A. Engineering Research Development (W.E.S.)-Project title: **ERDC – CAMAR-\$500,000 (2016)—Award# G634B58 (Faculty Researcher)**

PUBLICATIONS:

Peer-Refereed articles accepted and published in journals:

1. McInnis, E., Cornelious, L., **Murphy, J. L.**, Prince, D. & Wei-Chieh, W. Y (2021). Mathematics Teachers' Perceptions of Effective Instructional Practices and Engaging the iGeneration. International Journal of Teacher Education and Professional Development. 4(2), July-December 2021.

2. Thomas, T., & **Murphy, J. L. (2019)**. Political impact on emergency management processes. *International Journal of Current Research*, 11(5), May 2019.
3. **Murphy, J. L.**, McLin, D. & Thomas, T. (2017). Using Service Learning to enrich knowledge, training, and civic responsibility for emergency management technology students. *Technology Interface International Journal*, 17(2), Spring/Summer.
4. McLin, D. & **Murphy, J. L. (2015)**. Beyond Brick & Mortar: A Mobile Technology Ecosystem at an HBCU. *Technology Interface International Journal*, 16(1).
5. **Buck, J. L.** Alant, B. P., Ellis, D. & Sherwood, R. (2014). International Exchange: The Attitudes and Aspirations of Technology Education Students in the United States and South Africa. *Technology Interface International Journal*, 14(2), Spring/Summer.
6. **Buck, J. L.**, Cavett, L., Harris, D. & Yuan, P. C. (2013). Schools at risk: Technology Applications to assist in school's emergency management initiatives. *Journal of Modern Education Review*, 3(6). June.
7. **Buck, J. L.** Conely, S., Harris, B., & McInnis, E. Y. (2012). Service-learning: bridging the gap between classroom theory and application for technology students. *Technology Interface International Journal*, 12(2), Spring/Summer.
8. **Buck, J. L. (2011)**. The State of Security: The Growing Presence Emergency Management Technologies on College Campuses. *Technology Interface International Journal*, 12(1), Fall/Winter.
9. Gentry, R. & **Buck, J. L. (2010)**. Reframing Schools to Enhance Gender Access— Making the World a Better Place. ERIC Document.

Peer-reviewed and published encyclopedia entries:

1. **Buck, J. L. (2015)**. Division of Labor. *Encyclopedia of the Industrial Revolution in World History*. Washougal, WA: Mesa Verde Publishing.
2. **Buck, J. L. (2015)**. Human Relations Movement. *Encyclopedia of the Industrial Revolution in World History*. Washougal, WA: Mesa Verde Publishing.
3. **Buck, J. L. (2015)**. Industrial/Organizational Psychology. *Encyclopedia of the Industrial Revolution in World History*. Washougal, WA: Mesa Verde Publishing.
4. **Buck, J. L. (2015)**. Progressivism. *Encyclopedia of the Industrial Revolution in World History*. Washougal, WA: Mesa Verde Publishing.

PROFESSIONAL HONORS:

- Jackson State University's Center for Service and Community Engaged Learning-**Civically Engaged Faculty Award** (2016)
- Jackson State University Faculty Excellence Leadership and Service **Award-nominee** (2016)
- Epsilon Pi Tau International Technology Honor Society (EPT)-**Laureate Citation** (2015)
- Association of Technology, Management, and Applied Engineering (ATMAE)- **Excellence for Women in Technology Award** (2015)
- Association of Technology, Management, and Applied Engineering (ATMAE)-Student Division President, "**Recognition of Service "Award** (2014)
- Women of Color (STEM) **Technology Rising Star Award** (2012)
- Women Institute Summer Enrichment (WISE) **Fellow** at Carnegie Mellon University; NSF (2011)
- Jackson State University-College of Science, Engineering, and Technology **Outstanding Teacher Recognition** (Dept. of Tech) (2011)
- Association of Technology, Management, and Applied Engineering (ATMAE)-**Women in Tech. Division Service Award** (2010)
- Association of Technology, Management, and Applied Engineering (ATMAE)-Student Division-**Outstanding Student Chapter of the Year** (2010)

- Women Institute Summer Enrichment (WISE) **Fellow** at Vanderbilt University; NSF (2010)
- Women Institute Summer Enrichment (WISE) **Fellow** at University of California-Berkeley; NSF (2009)
- College of Science, Engineering, and Technology **Outstanding Teacher Award** (2008)

PROFESSIONAL APPOINTMENTS (LEADERSHIP):

- Epsilon Pi Tau International Technology Honorary- Board Chair (2018-present)
- Epsilon Pi Tau International Technology Honorary- Region II Director/Board Member (2017-2020)—**RE-ELECTED**
- Epsilon Pi Tau International Technology Honorary-Vice Board Chair (2015-2018)
- Epsilon Pi Tau International Technology Honorary- Region II Director/Board Member (2014-2017)
- Association of Technology, Management, and Applied Engineering-Students Division President (2012-2014)
- Association of Technology, Management, and Applied Engineering-Students Division Vice President (2010-2012)
- National Association of Technology—President-Elect (Research Division) (2007)

PROFESSIONAL AFFILIATIONS& ACTIVITIES:

- Journal of Technology Studies (of EPT)—Reviewer (2015-Present)
- International Association of Journals and Conferences (IAJC)—Reviewer (2008-Present)
- Journal of Engineering Technology—Reviewer (2010-2015)
- Epsilon Pi Tau Technology Honorary—Task Force (2008)
- Association of Engineering Education (2007)
- Epsilon Pi Tau Technology Honorary—Trustee (2006-Present)
- Phi Delta Kappa Educational Fraternity (2001)
- Alpha Theta Chi Collegiate Honor Society (2001)
- Epsilon Pi Tau Technology Honorary (1997 to Present)
- Association of Technology Management and Applied Engineering (formerly NAIT) (1996 to Present)

PROFESSIONAL TRAINING (CERTIFICATIONS AND CERTIFICATES):

- Lean Six-Sigma Green Belt (**LSSGB**) (Association of Technology, Management, and Applied Engineering—ATMAE) (**2017, Certification**)
- Group Exercise and Boot-camp Instruction (American Sport and Fitness Association—ASFA) (**2016, Instructor Certification**)
- Functional Fitness Instruction (American Sport and Fitness Association—ASFA) (**2015, Instructor Certification**)
- Active Shooter Training (FEMA) (**2015, Certificate**)
- National Response Framework (FEMA): IS 800 (**2015, Certificate**)
- Basic Disaster Life Support Training (MS Center for Emergency Services: The University of MS Medical Center) (**2014, Certificate**)
- National Incident Management Systems Training (FEMA): NIMS 700 (**2011, Certificate**)
- Incident Command Systems Training (FEMA): ICS 100-400 (**2009-2010, Certificates**)

Professional References Available upon request