

MOHAMMED ALI

Curriculum Vitae

Contact Information

Associate Professor and Program Coordinator
Industrial Technology and Technology Management
Department of Technology, Soules College of Business
The University of Texas at Tyler
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Professional Profile

Associate Professor of Industrial Technology and Technology Management and Program Coordinator at the Department of Technology at The University of Texas at Tyler. Expertise includes Agentic AI, PLCs, Lean Six Sigma, Industry 4.0/5.0, smart manufacturing, supply chain management, additive manufacturing, and biomedical device manufacturing. Extensive record of teaching, research, grants, accreditation, and professional leadership.

Academic Appointments

- University of Texas at Tyler (Associate Professor & Program Coordinator, 2016–Present, Tenured)
- Jackson State University (Associate Professor, 2013–2016, Tenured)
- Jackson State University (Assistant Professor, 2007–2013)
- Faculty Fellow, U.S. Navy/U.S. Air Force Summer Faculty Research Programs (2010-2014)
- Research Fellow, NIH; Teaching Assistant/Adjunct, UALR (2004-2007)

Industry Appointments

- Management Consultant, Institute of Water Modeling, Bangladesh, 1998-1999
- Technical Adviser, Material & Metallurgy Engineering Co., Bangkok, Thailand, 1995-1997

Education

- Ph.D., Applied Science – Manufacturing & Simulation of Biomedical Device, University of Arkansas at Little Rock (2008)
- M.S., Computer Science – Database & Artificial Intelligence, Oklahoma City University (2001)
- MBA, Management of Technology, Asian Institute of Technology, Bangkok, Thailand (1995)
- M.E. Coursework, Industrial & Production Engg, Bangladesh Univ Engg. Tech (1993)
- B.S., Mechanical Engineering, Chittagong Univ Engg Tech (1992), Summa Cum Laude, Rank 2/60

Major Achievements

- William E. Warner Minilectureship Award (2025)
- Paul T. Hiser Exemplary Publication Award (2022)
- Outstanding Faculty Research Award, UT Tyler Soules College of Business (SCOB) (2019)
- Best Faculty Award 2012 for Research, CSET, Jackson State University (2012)
- ATMAE Faculty Excellence Award (2011)
- NSF, NIH, and US-DoD grants and doctoral scholarship review panelist (since 2012)
- Average teaching evaluation: 4.75/5.0-
- 284 Google Scholar citations; 3,649 UT Tyler ScholarWorks reported downloads (Aug. 2018-26)

Licensures & Certifications

- Certified Lean Six Sigma Black Belt (2024) by ATMAE
- Certified in Effective College Instruction (2022) by ACUE & ACE
- Certified Senior Manufacturing Specialist (2011) by ATMAE
- Certified Educational Robot Training Instructor (2017) by FANUC America Corp.
- Engineer-Intern (2003) by Texas & Louisiana Professional Engineering Boards

Funded Research (Refer to Appendix C for detail list)

- PI: DoD - US Army instrumentation grant (\$470,636)
- PI: Multiple NIH and NSF-funded projects (\$46,307 – \$96,000)
- Senior Personnel: Toyota workforce development (\$940,000)
- Additional federal, corporate, and internal grants (SCOB Healthcare, Academic Partnership, and the UT Tyler Office of Research, Scholarship and Sponsored Programs) (\$5,000 - \$7,195)

Professional Leadership

- ATMAE Accredited Program Evaluator for AAS/AS/BS/MS (2015 – To date)
- ATMAE Micro & Nano Tech Division President (2019–2022)
- ASME Mississippi Chapter Chair (2013-16), Vice Chair (2010-12)
- SME Mississippi Chapter Faculty Advisor & University Liaison (2007-2016)
- Editorial board member/reviewer for multiple journals
- NSF GRFP, NIH CSR, and DoD SMART scholarship and grant review panels (2013 – to date)

Selected Publications (Refer to Appendix B for details and complete list)

Total **36 peer-reviewed journal articles** published (14 after joining UT Tyler in 2016), **2 Book chapters** (2020 & 2010), and **51 Conference presentations** (18 after joining UT Tyler in 2016).

Terminologies: A+/A SCOB List = A+/A rated publication venue listed in the Soules College of Business Journal list. UT Tyler DOAJ List = A+ rated publication venue endorsed by the UT Tyler Office of Research and Library, the Directory of Open Access Journals (DOAJ).

Representative 14 journal articles **after joining the University of Texas at Tyler** in Sept 2016:

1. Big Data Driven Manufacturing & Industry 4.0 (2026) – J. Modern Tech Eng (UTTyler DOAJ List)
2. From Lean Six Sigma to DMAIC 4.0 (2026) – Quality Management J. (UTTyler DOAJ List)
3. Electrostatics effect on transport & dispersion of micro-nano powder particles (2025) – JTMAE (A+ SCOB List)
4. Academic performance prediction in college based on Big Data (2026 in review) – J. College Student Development (A SCOB List)
5. Big data-driven innovations thrive in the supply chain (2024) – JTMAE (A+ SCOB List)
6. Lean Six Sigma body of knowledge for healthcare (2023) – J. Technology Studies (A+ SCOB List, published by Epsilon Pi Tau)
7. Micro-nano particle (MNP) safety (2023) – Nat. Env. Pollu.Tech. (UTTyler DOAJ List)
8. Multiple path MNP dosimetry at industrial workplace (2022) – Current Trends Engg. Science (UTTyler DOAJ List)
9. Comp fluid dynamics simulation of MNP (2021) – Intl. J. Modern Engg. (A+ SCOB List)
10. Novel technique to analyze cognitive predictors student dropout (2020) – Tech Interface Intl. J. (A+ SCOB List)
11. Mechanistic implications in biomedical devices (2019) – Intl. J. Modern Engg. (A+ SCOB List)
12. Self-regulated learning pedagogy in Applied Engineering (2019) – JTMAE (A+ SCOB List)
13. MNP toxicity and dosimetry at in-vitro model (2017) – Intl. J. Adv. Res. Engg. Tech. (UTTyler DOAJ List)
14. Antimicrobial filter design of respirators (2016) – Intl. J Innov. Bio. Chem Sci. (UTTyler DOAJ List)

Department, College and University Services

Departmental Service-----

- Recruitment, Marketing and Development Council Liaison for Longview Univ Center Industrial Technology (2016- To date)
- Program Coordinator, Industrial Technology & Management, Longview Univ Center (2016-25).
- Hiring, Promotion & Tenure Committee (2017 – To date).

Soules College of Business Service-----

- Member, Undergraduate Curriculum & Assessment Committee (Aug 2024 – To date).
- Member, Graduate Curriculum and Assessment Committee (August 2024 – To date).
- Member, Awards & Scholarship Committee (2023 – 2025).
- Member, Faculty & Staff Awards Committee (2017-2019).
- Member, Governance Committee (August 2021 – 2023).

University Service-----

- Attended fall, spring, and summer SCOB graduation commencements since 2016
- Member, University Curriculum (UG & Grad) Council (April 2024 – To date).
- Member, University Undergraduate Curriculum Sub-committee (April 2024 – To date)

Teaching Interests and Evaluation

(2016- To date) – University of Texas at Tyler (1-5 Scale)

- Advanced Manufacturing Processes - 4.90
- Lean Production – 4.95
- Polymer Processes - 4.71
- Programmable Logic Controllers - 4.63
- Research Trends in Industry - 4.75
- Research Techniques in HRD/Tech - 4.63
- Total Quality Management (UG/Grad) - 4.40/4.71
- Manufacturing Processes - 4.71
- Plant Layout and Facilities Planning - 4.86
- Value Stream Management - 4.44
- Computer Integrated Manufacturing 4.75

(2007 - 2015) – Jackson State University & The University of Arkansas at Little Rock (1-4 Scale)

- Advanced Production Management - 3.9
- Logistics and Supply Chain Management - 3.8
- Advanced Supply Chain Management - 3.75
- Materials Testing and Machine Design - 3.8
- Production and Inventory Management - 3.9
- Statics and Materials Mechanics - 3.72
- Hydraulics and Fluid Power, Hydraulic and Pneumatic Module Lab - 3.95
- Computer-Aided Drafting (AutoCAD, Inventor) - 3.75
- Advanced Computer-Aided Drafting (SolidWorks, Pro-E) - 3.80
- Motion and Time Study - 3.85
- Senior Capstone - 4.0
- Introduction to Aerosol Science and Technology - 3.95

Professional Development (selected)

- Participated in **30+ professional development workshops, training programs, and continuing education activities** in advanced manufacturing, industrial automation, engineering education, and research from 2008–2026.
- Completed the **NSF-funded AMTEC Institute for Industry 4.0 Innovation**, focusing on teaching Industry 4.0 and smart manufacturing (2026).
- Attended the **NSF National Center for Next Generation Manufacturing (NCNGM) Summit** at FANUC America to advance manufacturing education and workforce development (2025).
- Earned the **ACUE Effective College Instructor Certificate** and completed additional university training in online instruction, active learning, and evidence-based teaching practices (2021–2024).

- Completed specialized training in **FANUC robotics, industrial automation, PLCs, injection molding, additive manufacturing, CAD/CAM/CNC, material handling, and micro/nanotechnology** through NSF-funded programs, universities, and industry partners.
- Participated in **NSF, NIH, NASA, NIST, NOAA, ABET, ASME, SAP, and ATMAE** workshops on proposal development, accreditation, engineering leadership, manufacturing standards, and emerging technologies.
- Engaged in continuing professional development in **research proposal writing, engineering education, biomedical manufacturing, climate and geospatial technologies, and workforce development** through national conferences and workshops.

Please refer to:

National and International Reputation (Appendix A)

Detailed List of Publications & Supervised UG/Grad Research (Appendix B)

Grantsmanship – Funded, Pending and Submitted (Appendix C)

Appendix A - National and International Reputation

1. Google Scholar - total 284 Citations as of 27 August 2026
2. Scholars Work at UT Tyler Database – 3649 downloads from 95 countries of 71 articles & conference proceeding papers since registered in 2018.

Add co-authors
We have co-authors suggestions.
[ADD](#)

Dr. Mohammed Ali

Professor of Lean Six Sigma, Agile AI, Smart Manufacturing & Operations Management
Verified email at uttyler.edu - [Homepage](#)
[Agilent AI & Industry 5.0](#) [Six Sigma Quality](#) [SCM](#)
[Submicron and nanoparticles](#) [Big Data Mining](#)

FOLLOWING

Cited by [VIEW ALL](#)

	All	Since 2021
Citations	284	129
h-index	8	6
i10-index	6	2

Public access [VIEW ALL](#)

	0 articles	2 articles
not available		
available		

Web of Science Core Collection metrics

4 H-Index	6 Publications
121 Sum of Times Cited	104 Citing Articles
117 Sum of Times Cited without self-citations	102 Citing Articles without self-citations
2 Sum of Times Cited by Patents	2 Citing Patents

readershipreport

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Readership Distribution of Research Articles – 95 countries in the world. Source: Scholars' Work at the University of Texas at Tyler

Readership Distribution



	Country/Region	Downloads
1	Singapore	841
2	United States	575
3	Brazil	186
4	China	174
5	India	116
6	Viet Nam	62
7	Germany	48
8	United Kingdom	41
9	Russian Federation	33
10	Australia	30
11	Korea, Republic Of	26
12	Canada	25
13	Malaysia	22
14	Indonesia	19
15	Japan	17
16	Philippines	16
17	Taiwan	16
18	South Africa	16
19	Hong Kong	15
20	Turkey	15
21	Bangladesh	14
22	Poland	13
23	Argentina	12
24	Iraq	12
25	Kenya	12
26	Colombia	11
27	France	11
28	Iran, Islamic Republic	11
29	New Zealand	11

31	Austria	10
32	Egypt	10
33	Mexico	10
34	Pakistan	10
35	Spain	9
36	Netherlands	9
37	Italy	8
38	Jordan	8
39	Greece	7
40	Ireland	7
41	Belgium	6
42	Nigeria	6
43	Thailand	6
44	Ecuador	5
45	Portugal	5
46	Saudi Arabia	5
47	Chile	4
48	Finland	4
49	Sri Lanka	4
50	Nepal	4
51	Romania	4
52	Ukraine	4
53	Uzbekistan	4
54	Venezuela, Bolivarian	4
55	Switzerland	3
56	Dominican Republic	3
57	Latvia	3
58	Peru	3
59	Uruguay	3
60	Azerbaijan	2

61	Bolivia, Plurinational S	2
62	Ethiopia	2
63	Israel	2
64	Kyrgyzstan	2
65	Lebanon	2
66	Norway	2
67	Serbia	2
68	Senegal	2
69	Albania	1
70	Armenia	1
71	Bahrain	1
72	Costa Rica	1
73	Curacao	1
74	Czech Republic	1
75	Denmark	1
76	Algeria	1
77	Gabon	1
78	Croatia	1
79	Hungary	1
80	Jamaica	1
81	Cambodia	1
82	Kazakhstan	1
83	Lao People's Democra	1
84	Lithuania	1
85	Libya	1
86	Madagascar	1
87	Macedonia, The Form	1
88	Mauritania	1
89	Maldives	1
90	Malawi	1
91	Mozambique	1
92	Panama	1
93	Paraguay	1
94	Sweden	1
95	Tunisia	1
96	Uganda	1

Appendix B - Detailed List of Publications, Conference Presentations, Journal Editorial Work and Supervised UG/Grad Research

Peer-Reviewed and Refereed Journals (Selected)

1. Ali, M. (2026). Big Data Driven Manufacturing and Industry 4.0. *Journal of Modern Technology and Engineering*, 2(11), 196-219. <https://doi.org/10.62476/jmte112196>
2. Farley, R., & Ali, M. (2026). From Lean Six Sigma to DMAIC 4.0: Evidence-based validation of digitally enabled continuous improvement in manufacturing systems. *Quality Management Journal*, 1-14. <https://doi.org/10.1080/10686967.2026.2717194>
3. Ali, M. (2026). A novel technique of investigating Big Data to determine academic performance in the college. *Journal of College Student Development* (under peer review).
4. Ali, M. (2025). Electrostatic effects on the transport and dispersion of micro-nano pharmaceutical powders. *Journal of Technology, Management, and Applied Engineering*, 1(1), 1-12. DOI: <https://doi.org/10.31274/jtmae.18306>
5. Ali, M. (2024). Big data-driven innovations thrive in the supply chain. *Journal of Technology, Management, and Applied Engineering*, doi: <https://doi.org/10.31274/jtmae.16138>
6. Ali, M. (2023). Lean Six Sigma body of knowledge for healthcare industry administrators: implementation of lessons learned in applied engineering. *Journal of Technology Studies*, 48(1), 18-32. <https://jotsjournal.org/articles/10.21061/jts.410>
7. Ali, M. (2023). Predictability augmentation by in silico study to in vivo and in-vitro results of lung doses of airborne fine and ultrafine particles inhaled by humans at industrial workplaces. *Nature Environment and Pollution Technology*, 22(4), 1911-1920. DOI: 10.46488/NEPT.2023.v22i04.017 [https://neptjournal.com/upload-images/\(17\)D-1493.pdf](https://neptjournal.com/upload-images/(17)D-1493.pdf)
8. Ali, M. (2022). Multiple path particle dosimetry modeling employability to complement in-vitro ultrafine particle toxicity study. *Current Trends in Engineering Science*, 2(2). <http://hdl.handle.net/10950/4138>
9. Ali, M. (2021). Computational fluid dynamics simulation of inhaled submicron bioaerosol particles flow and deposition in the human lung. *International Journal of Modern Engineering*, 22(1), 5-11. https://scholarworks.utt Tyler.edu/tech_fac/7/
https://ijme.us/issues/fall2021/X_IJME%20fall%202021%20v22%20n1.pdf#page=7
10. Ali, M. (2020). Novel technique to analyze the effects of cognitive and non-cognitive predictors on students' course withdrawal in college. *Technology Interface International Journal*, 20(2), 36-41. https://scholarworks.utt Tyler.edu/tech_fac/5/
11. Ali, M. (2019). Mechanistic implications of mouthpiece design geometry on successful generation and delivery of aerosolized submicron to nano-sized particles from respiratory drug delivery device. *International Journal of Modern Engineering*, 20(1), 12-19. https://scholarworks.utt Tyler.edu/tech_fac/8/
12. Ali, M. (2019). Self-regulated learning pedagogy for teaching applied engineering and technology, class. *Journal of Technology, Management and Applied Engineering*, 35(1), 1-11. https://scholarworks.utt Tyler.edu/tech_fac/1/

<https://www.iastatedigitalpress.com/jtmae/issue/1084/info/>

13. Ali, M., Gutting, B.W., and van-Hoek, M.L. (2017). Multiple path particle dosimetry for prediction of mouse lung deposition of nanoaerosol particles. *International Journal of Advanced Research in Engineering and Technology*, 8(4), 10-20.
https://scholarworks.uttyler.edu/tech_fac/3/
https://iaeme.com/Home/article_id/IJARET_08_04_002
14. Ali, M. (2016). Antimicrobial agent-treated filtering face-piece respirators for inactivation of airborne viruses during environmental catastrophe. *International Journal of Innovations in Biological and Chemical Sciences*, 9(1), 39-46.
https://scholarworks.uttyler.edu/cgi/preview.cgi?article=1004&context=tech_fac
<https://whitesscience.com/product-category/ijibcs/volume-9-ijibcs>

JOINED THE UNIVERSITY OF TEXAS AT TYLER (2016)

15. Ali, M. (2015). Effects of three dry powder inhalers on deposition of aerosolized medicine in the human oral-pharyngeal-laryngeal regions. *Journal of Drug Design and Research*, 2(1), 1009-1015. https://scholarworks.uttyler.edu/tech_fac/2/ DOI :
<https://doi.org/10.47739/2379-089X/1009>
16. Ali, M. (2014). Engineered aerosol medicine and drug delivery methods for optimal respiratory therapy. *Journal of Respiratory Care*, 59(10), 1608-1610. DOI:
<https://doi.org/10.47739/2379-089X/1009>.
<http://rc.rcjournal.com/content/respcare/59/10/1608.full.pdf>
https://scholarworks.uttyler.edu/tech_fac/13
17. Ali, M., and Ibrahim, E.A. (2013). Determination of particle aerodynamic size distributions and viability of aerosolized H1N1 virus. *ASME Early Career Technical Journal*, 12(1), 1-7.
https://scholarworks.uttyler.edu/cgi/preview.cgi?article=1006&context=tech_fac
18. Ibrahim, E.A. and Ali, M. (2012). Comparative effects of forces acting on swirling annular liquid sheets. *ASME Early Career Technical Journal*, 11(1), 228-235.
https://scholarworks.uttyler.edu/cgi/preview.cgi?article=1007&context=tech_fac
19. Ali, M., and Ibrahim, E.A. In-vitro investigation of the aerodynamic performance of Collison nebulizer in generating biological aerosols. *Journal of Aerodynamics* (under peer review)
20. Ali, M., (2012). Novel method for inhalation control of workplace anthropogenic pollutant particles. *Journal of Particles and Particles Systems Characterization*, 29(4), 311-318.
<https://doi.org/10.1002/ppsc.200900089>.
https://scholarworks.uttyler.edu/cgi/preview.cgi?article=1008&context=tech_fac
21. Ali, M., and Ibrahim, E.A. (2011). Computational investigation of particle settling effects on inhaled submicron bioaerosol deposition in the human lung. *ASME Early Career Technical Journal*, 10(1), 1-5.
https://scholarworks.uttyler.edu/cgi/preview.cgi?article=1009&context=tech_fac
22. Ali, M. (2011). Mechanical Human Lung for Inhalation Toxicity Research. Peer Reviewed Conference Proceedings of the International Conference on Mechanical Engineering and Renewable Energy (ISSN Number: 2221-2213). https://icmerecuet.org/?page_id=131

23. Ali, M., Mazumder, M. K., Martonen, T. B. (2010). Measurements of electrodynamic effects on the deposition of MDI and DPI aerosols in a replica cast of human oral-pharyngeal-laryngeal airways. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*, 22(1), 35-44.
<https://doi.org/10.1089/jamp.2007.0637>
https://scholarworks.utt Tyler.edu/cgi/preview.cgi?article=1014&context=tech_fac
<https://www.researchgate.net/publication/23266686>
24. Ali, M. (2010). In-silico simulation of electrostatic charge effects on inhaled aerosol particle deposition in the human lung. *ASME Early Career Technical Journal*, 9(1), 75-79.
https://scholarworks.utt Tyler.edu/cgi/preview.cgi?article=1010&context=tech_fac
25. Ali, M. (2010). A novel method of characterizing medicinal drug aerosols generated from pulmonary drug delivery devices. *PDA Journal of Pharmaceutical Science and Technology*, 64, 364-372. <https://pubmed.ncbi.nlm.nih.gov/21502037/>
https://scholarworks.utt Tyler.edu/cgi/preview.cgi?article=1011&context=tech_fac
26. Ali, M., and Johnson, C. L. (2010). Characterizing principles of laboratory-graded aerosols generated from pressurized metered dose aerosol generators. *Journal of the Mississippi Academy of Sciences*, 55 (1), 125-126. <https://msacad.org/journal/jan10journal/jan10.pdf>
27. Ali, M., Mazumder, M. K., Martonen, T. B. (2009). Measurements of electrodynamic effects on the deposition of MDI and DPI aerosols in a replica cast of human oral-pharyngeal-laryngeal airways. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*, 22(1), 35-44.
<https://doi.org/10.1089/jamp.2007.063>
28. Ali, M. (2009). Operating performance comparisons between laser Doppler velocimetry and time of flight techniques. *Journal of Management and Engineering Integration*, 2(2), 1-13.
https://scholarworks.utt Tyler.edu/cgi/preview.cgi?article=1012&context=tech_fac
https://www.journalmei.com/files/ugd/f76c8e_435c560adc77488db883346f24f49533.pdf
29. Ali, M. (2009). Mechanical tracheobronchial model for human lung inhalation study. *ASME Early Career Technical Journal*, 8(1), 133-139.
https://scholarworks.utt Tyler.edu/cgi/preview.cgi?article=1013&context=tech_fac
30. Ali, M., and Sinegal, A. (2009). Respiratory aerosol characterization comparisons between the electronic single particle aerodynamics relaxation time analyzer and TSI aerodynamic particle sizer spectrometer. *Journal of Mississippi Academy of Science*, 54(1), 93-94.
<https://msacad.org/journal/jan09journal/jan09.pdf>
31. Ali, M., Reddy, R. N., Mazumder, M. K. (2008). Electrostatic charging effect on workplace aerosol particle deposition in a hollow throat cast. *Journal of Electrostatics*, 66(7-8), 401-406.
<https://doi.org/10.1016/j.elstat.2008.02.005>
https://scholarworks.utt Tyler.edu/cgi/preview.cgi?article=1015&context=tech_fac
32. Ali, M., Ejiwale, J. A., Mazumder, M. K. (2008). Investigation of the electromechanical properties of asthma medicinal drugs using laser Doppler velocimetry. *Journal of Mississippi Academy of Science*, 53(1), 103-104. <https://msacad.org/journal/jan08journal/jan08.pdf>
33. Ali, M., Reddy, R. N., Mazumder, M. K. (2008). Simultaneous characterization of aerodynamic size and electrostatic charge distributions of inhaled dry powder inhaler aerosols. *Journal of Current Respiratory Medicine Review*, 4(1), 2-5.
<http://dx.doi.org/10.2174/157339808783497819>
<https://www.eurekaselect.com/article/27178>
https://scholarworks.utt Tyler.edu/cgi/ir_submit.cgi

34. **Ali, M.**, Reddy, R. N., Mazumder, M. K., Milanova, M. G., Zhang, J., Biris, A. S. (2007). Electrostatic charge polarity effect in inhaled aerosol deposition in the glass bead tracheobronchial airway model. *Journal of Arkansas Academy of Science*, 61(1), 20-26.
<https://scholarworks.uark.edu/jaas/vol61/iss1/5/>
35. **Ali, M.**, Wu, N., Good, M. L. (2006). Analysis of the effects of cognitive and non-cognitive predictors on college performance: an innovative application of decision trees and association rules. *The Journal of Computing Sciences in Colleges*, 21(5), 43-44.
36. **Ali, M.**, Speece, M. W. (1997). Competitiveness of Bangladeshi ready-made garments. *Journal of Euro-Asian Management*, 3(2), 1-30. <https://ssrn.com/abstract=2576101>.

Book Chapters

1. **Ali, M.** (2020). Big Data Driven Manufacturing and Supply Chain in Industry 4.0. In *Big Data in Supply Chain Management*, edited by Arun Nambiar, pp. 1-17, IGI Global Publishing, Hershey, PA, USA.
2. **Ali, M.** (2010). Pulmonary Drug Delivery. In *Handbook of Non-Invasive Drug Delivery Systems*, edited by Vitthal Kulkarni, pp. 209-246, Elsevier Inc., Amsterdam, The Netherlands.
https://scholarworks.uttyler.edu/tech_fac/12
ISBN: 9780815520252. <https://doi.org/10.1016/B978-0-8155-2025-2.10009-5>

Presentations and Peer-reviewed Conference Proceedings (Selected)

1. Farley, R., **Ali, M.** ATMAE Annual Conference 2026, "From Lean Six Sigma to DMAIC 4.0: evidence-based validation of digitally enabled continuous improvement in manufacturing systems." New Orleans, Louisiana. (Nov 18-20, 2026).
2. **Ali, M.** ATMAE Annual Conference 2024, "Electrostatics and van der Waals forces effects on micro and nano pharmaceutical powders in drug manufacturing." Las Vegas, Nevada. (Oct. 28-31, 2024).
3. **Ali, M.** East Texas Research Conference 2024, "Electrodynamic blending of pharmaceutical drug powders." The UT Tyler, Tyler, Texas. (April 12, 2024).
4. **Ali, M.** ATMAE Annual Conference 2023, "Electrodynamic processing of micro and nano pharmaceutical powders enhances blended ordered mixture." Atlanta, Georgia. (Oct 25-27, 2023).
5. **Ali, M.** and Miller, M. ATMAE Annual Conference 2022, "Electromechanical effects on micro and nanoparticles generated from drug delivery devices and their implications in flow and deposition efficiency." Louisville, Kentucky. (Nov 9-11, 2022).
http://scholarworks.uttyler.edu/tech_fac/9
6. **Ali, M.** and Johnson, NM. SOT: Micro & Nanoparticle Safety Annual Conference 2022, "In-silico simulation of ultrafine and nanoparticles toxicity burdens." San Diego, California. (March 27-31, 2022).
7. **Ali, M.** ATMAE Annual Conference 2021, "Computational simulation of the lung doses of airborne fine and ultrafine particles inhaled by humans at industrial workplaces." Orlando, Florida. (Nov 3-5, 2021).

8. **Ali, M.** "Lean Six Sigma applied engineering curriculum for healthcare administration majors." *Proceedings of ASEE Annual Conference and Exposition*, Long Beach, California. (July 26-28, 2021).
9. **Ali, M.** ATMAE Annual Conference 2020, "Micro and nanoparticle spectrometry: a comparison between laser Doppler velocimetry and time of flight techniques." Louisville, Kentucky. (Oct 7-9, 2020).
10. Miller, M. and **Ali, M.** ATMAE Annual Conference 2020, "Insights to a successful ATMAE accreditation: tips to keeping standards in compliance." Louisville, Kentucky. (Oct 7-9, 2020).
11. **Ali, M.**, Miller, M., Lawrence, H., and Fazarro, D. ATMAE Annual Conference 2019, "Aerodynamic effects on nano and sub-micron respiratory drug particles flow and deposition efficiency." Charlotte, North Carolina. (Nov 6-8, 2019).
12. **Ali, M.** 14th International Manufacturing Science and Engineering Conference 2019, "Manufacturing design effects on aerosolized particles from respiratory drug delivery devices." Penn State Erie, Pennsylvania. (June 10-14, 2019).
https://scholarworks.uttyler.edu/fac_posters/18
13. **Ali, M.** East Texas Research Conference 2019, "Manufacturing process implications on aerosolized submicron to nano-sized particles from respiratory drug delivery devices." The UT Tyler, Tyler, Texas. (May 9-10, 2019).
14. **Ali, M.**, Miller, M., Lawrence, H., and Fazarro, D. ATMAE Annual Conference 2018, "Mechanistic implications of mouthpiece design geometry on successful generation and delivery of aerosolized submicron to nano-sized particles from respiratory drug delivery device." Kansas City, Missouri. (Nov. 7-9, 2018).
15. Miller, M., **Ali, M.**, and Lawrence, H. ATMAE Annual Conference 2018, "The new ATMAE learning management system: streamlining certification and training." Kansas City, Missouri. (Nov. 7-9, 2018).
16. **Ali, M.**, Donaldson, S., Miller, M., Lawrence, H., and Fazarro, D. ATMAE Annual Conference 2017, "Automatic identification data capture towards robust material handling: a key learning pedagogy for warehousing class." Cincinnati, Ohio. (Nov 1-3, 2017).
17. Miller, M., **Ali, M.**, Donaldson, S., Lawrence, H., and Fazarro, D. ATMAE Annual Conference 2017, "Does offering certifications assist in the recruitment of undergraduate majors?" Cincinnati, Ohio. (Nov 1-3, 2017).
18. **Ali, M.** ATMAE Annual Conference 2016, "Self-regulated learning pedagogy for teaching applied engineering and technology, class." Orlando, Florida. (November 2-5, 2016).

JOINED THE UNIVERSITY OF TEXAS AT TYLER (2016)

19. Davenport, A., **Ali, M.** Mississippi Academy of Science 80th Annual Conference, "Computational simulation of micro- and nano-particle deposition inside human lung model." Hattiesburg, Mississippi. (February 17-19, 2016).
20. **Ali, M.**, Gutting, B.W., and van-Hoek, M.L. 31st Southern Biomedical Engineering Conference, "Multiple path particle dosimetry simulation of respiratory deposition of nanoaerosol in the mouse lung." New Orleans, Louisiana. (April 30–May 3, 2015).
21. **Ali, M.** ATMAE Annual Conference 2014, "A Novel Method of Determining the Manufacturing and Design Effects on Aerodynamic and Electromechanical Performance of Aerosol Particles

Generated from Respiratory Drug Delivery Devices," Association of Technology, Management and Applied Engineering (ATMAE), St. Louis, MO. (November 21-23, 2014).

22. Ali, M., **Ali, M.** Mississippi Academy of Science 78th Annual Conference, "Measurement of particle size and charge distributions of asthma drug particles generated by dry powder inhalers." Hattiesburg, Mississippi. (March 6-7, 2014).
23. **Ali, M.**, Ibrahim, E.A. ASME Early Career Technical Conference 2013, "Determination of particle aerodynamic size distributions and viability of aerosolized H1N1 virus." American Society of Mechanical Engineers, University of Alabama, Birmingham, Alabama. (November 2-3, 2013).
24. **Ali, M.**, Dejene, B. The 2013 MS-INBRE Annual Research Symposium, "Mechanistic Phenomena of Inhaled Submicron Bioaerosol Particles Flow and Deposition in the Human Lung." University of Southern Mississippi, Hattiesburg, Mississippi. (February 23, 2013).
25. Ali, M., Dejene, B., Hubbard, I., **Ali, M.** Mississippi Academy of Science 77th Annual Conference, "Electrochemical Determination of Aerodynamic Performance of Asthma Drug Particles Generated by Metered Dose Inhalers." Hattiesburg, Mississippi. (February 21-22, 2013).
26. **Ali, M.**, Ibrahim, E.A. ASME Early Career Technical Conference 2012, "Comparative effects of forces acting on swirling annular liquid sheets." American Society of Mechanical Engineers, Georgia Institute of Technology, Atlanta, Georgia. (November 2 - 3, 2012).
27. **Ali, M.** NISBRE Conference 2012, "In-silico investigation of particle inertial impaction effects on inhaled submicron bioaerosol deposition in the human lung," National IDeA Symposium of Biomedical Research Excellence (NISBRE), Washington, DC. (June 25 - 27, 2012).
28. **Ali, M.** ICMERE Annual Conference 2011, "Mechanical Human Lung for Inhalation Toxicity Research," International Conference on Mechanical Engineering and Renewable Energy (ICMERE), Chittagong, Bangladesh. (December 24-26, 2011).
29. **Ali, M.**, Harnish, D. A., Heimbuch, B. K. et al. AAAR Annual Conference 2011, Accelerated attenuation of viability of bioaerosols by acquired oxidants. American Association of Aerosol Research (AAAR), Orlando, FL. (October 4 - 7, 2011).
30. **Ali, M.** ATMAE Annual Conference 2011, "A novel use of data mining on college students' academic performance," Association of Technology, Management and Applied Engineering (ATMAE), Cleveland, OH. (November 9 - 12, 2011).
31. **Ali, M.**, Ibrahim, E.A. ASME Early Career Technical Conference 2011, "Computational investigation of particle settling effects on inhaled submicron bioaerosol deposition in the human lung." American Society of Mechanical Engineers, Georgia Institute of Technology, Atlanta, Georgia. (Nov. 4-5, 2011).
32. **Ali, M.** ASME Early Career Technical Conference 2010, "In-silico simulation of electrostatic charge effects on inhaled aerosol particle deposition in the human lung." American Society of Mechanical Engineers, Georgia Institute of Technology, Atlanta, Georgia. (October 1 - 2, 2010).
33. Johnson, C., and **Ali, M.** American Association of Pharmaceutical Scientists Annual Conference and Exposition 2010, "Characterization principles of aerosol medicine generated from asthma drug inhalers," American Association of Pharmaceutical Scientists, New Orleans, Louisiana. (November 14-18, 2010).
34. **Ali, M.** 2010 ATMAE Annual Conference, "A novel use of data mining on college students' withdrawals from registered courses," Association of Technology, Management and Applied Engineering (ATMAE), Panama City Beach, FL. (October 26 - 30, 2010).

35. **Ali, M.** American Association of Aerosol Research Annual Conference 2009, "Mouth-Throat Losses for Sitting versus Lying Administration of Respiratory Drug Aerosols," American Association of Aerosol Research, Minneapolis, Minnesota. (October 26, 2009).
36. **Ali, M.** ASME Early Career Technical Conference 2009, "Mechanical Tracheobronchial Model for Human Lung Inhalation Study," American Society of Mechanical Engineers, Tuscaloosa, Alabama. (October 2, 2009).
37. **Ali, M.** 15th International Conference on Industry, Engineering, and Management Systems, "A Novel Method of Characterizing Medicinal Drug Aerosols Generated from Pulmonary Drug Delivery Devices," Association of Industry, Engineering, and Management Systems, Cocoa Beach, Florida. (March 9, 2009).
38. **Ali, M.** 2008 National Association of Industrial Technology Annual Conference, "Design effects of asthma drug delivery devices on the emitted aerosol losses in the human mouth-throat region," Association of Technology, Management and Applied Engineering (Former NAIT), Nashville, TN. (November 18, 2008).
39. **Ali, M.** American Association of Pharmaceutical Scientists Annual Conference and Exposition 2008, "Electrical Polarity Effects on Liposome Endocytosis by Alveolar Epithelial Cells," American Association of Pharmaceutical Scientists, Atlanta, Georgia. (November 15, 2008).
40. **Ali, M.** 5th International Symposium on Recent Advances in Environmental Health. "A novel method to control workplace anthropogenic pollutant particles." NIH RCMI - Center for Environmental Health, JSU, MS, Jackson, Mississippi. (September 14, 2008).
41. **Ali, M.,** Reddy, R. N., Mazumder, M. K., American Association of Aerosol Research 2007 Annual Conference, "Electromechanical properties analysis of four pressurized metered dose inhalers by a single particle aerodynamic relaxation time analyzer," American Association of Aerosol Research, Reno, Nevada. (November 11, 2007).
42. **Ali, M.,** Reddy, R. N., Mazumder, M. K., American Association of Pharmaceutical Scientists Annual Conference and Exposition 2007, "Real time analysis of charge and aerodynamic size distribution of dry powder inhaler aerosol particles," American Association of Pharmaceutical Scientists, San Diego, California. (September 24, 2007).
43. **Ali, M.,** Reddy, R. N., Mazumder, M. K., et al., Seventh International Conference on Mars, "Computational model for respiratory drug delivery in the Martian atmospheric environment," NASA Jet Propulsion Laboratory, CalTech, Pasadena, California. (July 9, 2007).
44. **Ali, M.,** Reddy, R. N., Mazumder, M. K., 2007 Electrostatic Society of America Annual Conference, "Electrostatic charge effects on dry powder inhaler aerosols drug delivery," Purdue University, West Lafayette, Indiana. (June 12, 2007).
45. **Ali, M.,** Reddy, R. N., Mazumder, M. K., et al., 91st Annual Conference of the Arkansas Academy of Science, "Glass bead tracheobronchial airways model for in-vitro studies of respiratory drug delivery," Arkansas Academy of Science, Russellville, Arkansas. (April 13, 2007).
46. **Ali, M.,** Mazumder, M. K., 2006 American Association of Pharmaceutical Scientists Annual Conference and Exposition, "Electrostatic effects on the transport and dispersion of pharmaceutical powders," American Association of Pharmaceutical Scientists, San Antonio, Texas. (October 6, 2006).
47. Berlinski, A., **Ali, M.,** Mazumder, M. K., International Conference of the American Thoracic Society-2006, "Aerosol characterization of nebulized Formoterol," American Thoracic Society, San Diego, California. (May 5, 2006).

48. **Ali, M.**, Mazumder, M. K., Sharma, R., Srirama, P. K., International Conference on Frontiers of Aerosol Dosimetry, "In-vitro studies of nebulizer aerosol particles deposition as a function of aerodynamic size and electrostatic charge in an anatomical throat cast," University of California Irvine, Irvine, California. (October 19, 2005).
49. **Ali, M.**, Mazumder, M. K., Sharma, R., Srirama, P. K., Chowdhury, P., Straub, K. D., International Conference on Frontiers of Aerosol Dosimetry, "War of the worlds: winning the battle against extraterrestrial dusts in human missions to Mars and the Moon," University of California Irvine, Irvine, California. (October 19, 2005).
50. Mazumder, M. K., **Ali, M.**, Sharma, R., Srirama, P. K., Calle, C. I., Pruessner, K., IEEE Industry Applications Society Conference, "Research needs in electrostatics for Lunar and Mars Space missions," IEEE, Hong Kong. (October 12, 2005).
51. Mazumder, M. K., **Ali, M.**, Sharma, R. et al., 3rd New England International Nanomanufacturing Workshop, "Biohazards of Lunar and Martian ultrafine dusts: strategies for measurement, mitigation and respiratory drug delivery," Northeastern University, Boston, Massachusetts. (June 1, 2005).

JOURNAL EDITORIAL BOARD MEMBER

1. **Editorial Board Member**, Intl. Journal of Management and Engineering Integration. (since 2008).
2. **Associate Editor**, ASME Early Career Technical Conferences and Journals. (since 2012).
3. **Editorial Reviewer**, Journal of Manufacturing and Design Science. (since 2014).
4. **Editorial Reviewer**, Advances in Mechanical Engineering. (since 2013).
5. **Editorial Reviewer**, ATMAE J. of Technology, Management, and Applied Engineering (since 2013).
6. **Promotion & Tenure Dossier Reviewer**, 2013, Southern Illinois University Carbondale, IL, USA.
7. **Editorial Reviewer**, JSU Journal of The Researcher, Jackson, Mississippi. (2009-2016).
8. **Invited Reviewer**, International Journal of Lean Six Sigma. (since 2024)
9. **Invited Reviewer**, Aerosol Science and Technology Journal. (since 2011).
10. **Invited Reviewer**, AAPS Journal of Pharmaceutical Science and Technology. (since 2009).

PH.D. DISSERTATION EXAMINER AND M.S. RESEARCH

1. Examined Doctoral Dissertation (February 2014), "A novel framework of cloud-based e-learning architecture for higher education." Ph.D. Candidate: M. A. H. Masud, Charles Stuart University, NSW, Australia.
2. Examined Doctoral Dissertation (August 2012), "Effect of Wire EDM parameters on surface integrity in the machining of aluminum alloy", Ph.D. Candidate: P. Srinivasa Rao, Department of Mechanical Engineering, Andhra University College of Engineering, India.
3. Supervised Master's Research (January 1, 2010 - August 31, 2010), "Biosimulation of aerosol deposition in the human lung." MS Student: Vijay Maddipatla.

SUPERVISED GRADUATE AND UNDERGRADUATE RESEARCH

1. Supervised two graduate students' research on a Toyota grant-funded Logistics and Intelligent Transportation Systems, "Multi-Criteria Route Selection Model Utilizing Linear Programming to Optimize Incident". (May 2015 – August 2016). PhD Students: Kendrick Walker and Di Wu.
2. Supervised Research, REO Grant Funded by MS-INBRE, "Computational simulation of Micro- and Nano-Particle Deposition inside Mouse Lung Model". (May 2016 – Aug 2016). REO Student: Breanna Lewis.
3. Supervised Research, REO Grant Funded by MS-INBRE, "Computational Simulation of Micro- and Nano-Particle Deposition inside Human Lung Model." (May 2015 – Aug 2015). REO Student: Anupria Davenport.
4. Supervised Research, REO Grant Funded by MS-INBRE, "Measurement of Particle Size and Charge Distributions of Asthma Drug Dry Powder Inhaler Aerosols." (May 2013 – Aug 2013). REO Student: Marina Ali.
5. Supervised Research, Research Grant Funded by MS-INBRE, "Electromechanical Phenomena of Drug Delivery Device Generated Submicron Particles." (August 2012 – May 2013). Undergraduate Research Assistant: Beruh Dejene and Ieshia Hubbard.
6. Supervised Research, REO Grant Funded by MS-INBRE, "Characterizing principles of laboratory graded aerosols generated from pressurized metered-dose aerosol generators." (June 1, 2009 - August 31, 2009). REO Student: Courtney L. Johnson.
7. Supervised Research, REO Grant Funded by MS-INBRE, "Respiratory aerosol characterization comparisons between the electronic single particle aerodynamics relaxation time analyzer and TSI aerodynamic particle sizer spectrometer." (June 1, 2008 - August 31, 2008). REO Student: Allen Sinegal.

Appendix C - Grantsmanship – Funded, Pending and Submitted

GRANTS & SCHOLARSHIPS REVIEW PANELIST

1. Panelist, NSF Graduate Research Fellowship Program (GRFP), (every year since 2013).
2. Panelist, NIH Grant Proposals at the Center for Scientific Review (CSR), National Institutes of Health (since Aug 2012).
3. Panelist, American Society for Engineering Education and the Dept of Defense SMART Scholarship Review Panel (since 2011).

FUNDED RESEARCH GRANTS & CONTRACTS

1. Ali, M. (**Principal Investigator**), "Quantitative measurement of inhaled ultrafine particles by fetal mice using multiple path particle dosimetry," Sponsored by The UT Tyler Office of Research, Scholarship and Sponsored Programs, \$7,195.00. (Sept 2020 – January 2023).
2. Ali, M. (**Principal Investigator**), "Mechanistic implications of mouthpiece design geometry and powder mixture homogeneities on successful generation of aerosolized submicron particles from respiratory drug delivery devices," Sponsored by Soules College of Business Healthcare Grant, \$5,000.00. (July 2018 – July 2019).
3. Ali, M. (**Principal Investigator**), "Longview University Center Industrial Technology Summer Camp," Sponsored by The UT Tyler Internal Grant, \$5,396.00. (May 1, 2018 – July 31, 2018).
4. Ali, M. (**Principal Investigator**), "Acquisition of Aerosol Particle Analyzers for Interdisciplinary, Collaborative Research and Education in Biomedical Engineering Program at Jackson State University," Sponsored by Dept. of Defense, United States Army Research, Development and Engineering Command, \$470,636.00. (Sept 1, 2016 – August 31, 2017).
5. Ali, M. (**Senior Personnel**), William McHenry (PI) "Toyota Research and Workforce Development," Sponsored by Toyota Motors Corp., Corporate, \$940,000.00. (Jan 1, 2014 – Dec 31, 2017).
6. Ali, M. (**Senior Personnel**), Kyle Bray (PI) "Verizon Minority Male Maker summer program – hands-on summer learning experience on solid modeling and 3D printing for Blackburn Middle School students," Sponsored by Verizon Communications, Corporate, \$92,000.00. (June 1, 2015 – July 31, 2016).
7. Ali, M. (**Senior Personnel**), Wei Zhang (PI) "Implementing Self-Regulated Learning Assessment in Diverse STEM Learning Settings," Sponsored by NSF, Federal, \$unknown. (Aug 1, 2014 – July 31, 2016).
8. Ali, M. (**Conference Travel Grant**) JSU Center for University Scholars \$1,250 x 5 = \$6,250, every year since 2010.
9. Ali, M. (**Principal Investigator**), "Simulation of Bioaerosol Particle Deposition in the Human Lung," Sponsored by NIH-NIGMS MS-INBRE, Federal, \$49,993.00. (Jun 1, 2012 – May 31, 2013).

10. Ali, M. (**Principal Investigator**), "Simulation of Bioaerosol Particle Deposition in the Human Lung," Sponsored by NIH-NCRR MS-NBRE, Federal, \$29,897.00. (Jun 1, 2011 – May 31, 2012).
11. Ali, M. (**Principal Investigator**), "Simulation of Bioaerosol Particle Deposition in the Human Lung," Sponsored by NIH-MFGN, Federal, \$18,972.00. (Sept 1, 2010 – May 31, 2011).

Note: Though the titles of the above three grants are the same, each work focused on a particular component of electromechanical deposition mechanisms of submicron and nanoparticles.

12. Ali, M. (**Principal Investigator**), "In-vitro and Mathematical Simulation of Aerosol Particle Deposition in the Human Lung Airway," Sponsored by NSF MS-EPSCoR, Federal, \$46,307.00. (Jan 1, 2010 – Dec 31, 2010).
13. Ali, M. (**Principal Investigator**), "In Vitro Investigation of the Electrostatic Charge Effect on Deposition of Asthma Drug Metered Dose Inhaler in the Oral-Pharyngeal-Laryngeal Region of Human Respiratory Airway," Sponsored by Center for University Scholars, Jackson State University, \$13,910.00. (June 1, 2008 - July 31, 2008).
14. Ali, M. (**Senior Personnel**), Dr. Mehri Fadavi (PI), JSU Department of Physics, Atmospheric and Geosciences, "Mississippi Academy for Science Teaching," Sponsored by NSF, Federal, \$8.7m, Jan 1, 2008 – Dec 30, 2013.
15. Ali, M. (**REO Mentor**) - Mississippi Functional Genomics Network Summer Research 2008 & 2009 Grant, \$12,000.00.

PENDING & UNFUNDED GRANTS

1. Ali, M. (**Principal Investigator**), "Quantitative Measurement of Inhaled Ultrafine Particles by Fetal Mice using Multiple Path Particle Dosimetry," Sponsored by UTT Office of Research and Scholarship, \$9,859.00. (June 15, 2020).
2. Ali, M. (**Principal Investigator**), "Manufacturing Implications on Performance of the Respiratory Drug Delivery Devices," Sponsored by Academic Partnership, UTT Souls College of Business, \$4,670.00. (June 15, 2018).
3. Ali, M. (**Principal Investigator**), "Two 3D printers -Dremel DigiLab 3D45 for LUC - Industrial Tech Lab," Sponsored by Phillips 66 Pipeline, Midland, TX, \$4,000.00. (March 6, 2018).
4. Ali, M. (**Principal Investigator**), "Development of Biomedical Materials Curriculum for Biomedical Engineering Program," Sponsored by the NIH-NIGMS MS-INBRE, Federal, \$36,270. (June 2016 – May 2017). (Pending)
5. Ali, M. (**Principal Investigator**), "Simulation of Nanoaerosol Particle Flow and Deposition Physics in the Respiratory Airway, Sponsored by the US Department of Defense (DoD), Federal, \$330,000. (Aug 2015 – July 2018). (Unfunded)
6. Ali, M. (**Principal Investigator**), "Increased Enrollment and Retention, and Training for Manufacturing Specialist Certification for African-American Minority Students at Jackson State University, Sponsored by the U.S. Department of Education, Federal, \$243,000. (Jan 2015 – Dec. 2018). (Unfunded)

7. Ali, M. (***Principal Investigator***), Tuluri, Francis, "Nuclear Technology Bridge Course Modules for Enhanced Minority Nuclear Technical Workforce," Sponsored by Nuclear Science and Security Consortium and Minority Serving Institution, Federal, \$244,129. (Jan 1, 2013 – December 31, 2015). (Unfunded)
8. Ali, M. (***Principal Investigator***), "In-silico Simulation of Bioaerosol Particle Deposition in the Human Lung," Sponsored by NIH-AREA (Academic Research Enhancement Award), Federal, \$468,877. (Jun 1, 2013 – May 31, 2016). (Unfunded)
9. Ali, M. (***Principal Investigator***), Colonias, John (Co-Principal), "RET: Aerosol Science and Engineering Research Experience for Jackson Public School District Science Teachers of Mississippi," Sponsored by National Science Foundation, Federal, \$438,000. (Unfunded)
10. Ali, M. (***Principal Investigator***), Buck, Jessica L., "GSE/RES: Choosing Careers of African-American Women in STEM," Sponsored by National Science Foundation, Federal, \$449,040. (Unfunded)
11. Ali, M. (***Principal Investigator***), Yuan, Pao-Chiang, "MRI: Acquisition of Aerosol Particle Analyzers for Interdisciplinary, Collaborative Research and Education at Jackson State University," Sponsored by National Science Foundation, Federal, \$261,512. (Unfunded)
12. Ali, M. (***Senior Personnel***), Fadavi, Mehri (PI), "Mississippians Engaged in Research and Inquiry-based Science Teaching—Project MERIT," Sponsored by Howard Hughes Medical Institute, Private, \$2,200,000. (Unfunded)
13. Ali, M. (***Principal Investigator***), Payton, Marinelle (Co-PI), "Electromechanical Properties Effects on Pulmonary Drug Aerosol Particle Deposition in the Human Upper Respiratory Airways," Sponsored by Mississippi Functional Genomics Network, State, \$469,481. (Unfunded)