

Shaik Jeelani, Ph.D., P.E.

Vice President, Research and Sponsored Programs

Director, Center for advanced Materials

Director, Ph.D. Program in Materials Science and Engineering

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Education

Ph. D 1974, North Carolina State University, Raleigh, North Carolina

Major: Machine Design, Stress Analysis, Metal Machining

Minor: Mathematics, Engineering Mechanics

Experience (Academic)

Professor of Mechanical Engineering, Tuskegee University, 1980 – **Present**

Associate Professor of Mechanical Engineering, Tuskegee University, 1978 –1980

Assistant Professor of Mechanical Engineering, Tuskegee University, 1974 –1978

Experience (Administrative/Managerial)

Vice President, Research and Sponsored Programs, Tuskegee University, 1996-**Present**

Director, Ph.D. Program in Materials Science and Engineering, 1998-**Present**

Director, Center for Advanced Materials, Tuskegee University, 1977 - **Present**

Interim Dean, School of Engineering and Architecture, Tuskegee University, 1992-1994

Director, Computer Aided Design Laboratory (CAD), Tuskegee University, 1984-1996

Associate Dean of Engineering and Architecture, Tuskegee University, 1981 – 1996

Assistant Dean, of Engineering and Architecture, Tuskegee University, 1980 – 1981

Interim Head, Mechanical Engineering Department, Tuskegee University, June 1, 1987 - August 31, 1987, June 1, 1982 – July 30, 1983, April 1, 1979 – June 1, 1980, June 1, 1977 – May 31, 1978

Curriculum and Infrastructure Development

Dr. Jeelani played a leading role in the development of various curriculums and infrastructure in the School of Engineering and Architecture. He spearheaded the **Infrastructure and curriculum development** in the School of Engineering and Architecture through a **\$2.50** million grant from the Army Research Office. This effort resulted in the university's obtaining full (six years) ABET **accreditation** for all its Engineering programs. He also wrote the proposal for funding of the **first Endowed Chair in Materials Science and Engineering** at Tuskegee University and spearheaded the development of the curriculum, recruitment of students and establishment of **Tuskegee University's first Ph.D. program in Materials Science and Engineering.**

Division of Research and Sponsored Programs

Dr. Jeelani is serving as the first **Vice President for Research and Sponsored Programs** (1996-Present) at Tuskegee University. The responsibilities include developing aggressive strategies and plans to increase funding for research and other sponsored programs and supervising three departments: Sponsored Programs, International Programs and Grantsmanship and Compliance. As a result of streamlining the Grants and Contracts process through development of various **Sponsored Programs and Compliance Guides** and publication of **Tuskegee's Research Capability**, Funding for Research and Sponsored Programs at Tuskegee was raised from **\$23.6 million** in 1996 to **\$48 Million** in 2004.

Teaching Experience

Engineering Graphics, Introduction to Engineering, Statics, Dynamics, Applied Mechanics, Materials Science, Strength and Materials, Thermodynamics, Fluid Mechanics, Theory of Machines, Manufacturing Processes, Machine Design, Advanced Machine Design, Stress Consideration in Design, Experimental Stress Analysis.

Research Interests

Processing (hand layup, vacuum bag, autoclave, compression molding), Process Sensing, low-cost manufacturing using RTM, VARIM processes, static and dynamic (low-velocity, high strain rate, ballistic impact) of Fiber Reinforced Composites, Sandwich Composites, Fatigue and Fracture, Microstructural characterization (SEM, Optical Microscopy, Thermo-gravimetric Analysis), Structural Analysis, Non Destructive Evaluation.

Funded Grants

1. "Surface Integrity in Machining 18% Nickel Maraging Steel", Grant No SER77-04201 from **National Science Foundation (\$20,000, 6/1/77 – 12/31/78).**
2. "Evaporation Behavior of Super Alloy", **NASA, Lewis Research Center, (\$40,000 8/1/78 – 8/31/78),** with Dr. R.P. Ramirez.

3. "A study of Cumulative Fatigue Damage", **U.S. Navy, Naval Air Systems Command**, (**\$30,000** 11/28/77-9/2/78) with Dr. B.Z. Jarkowski.
4. "Evaporation Behavior of Super Alloys", **NASA, Lewis Research Center**, (**\$25,000** 6/1/78-12/31/79), with Dr. R.P. Ramirez.
5. "A Study of Cumulative Fatigue Damage", **U.S. Navy Air Systems Command** (**\$41,175**, 2/1/79-4/30/80).
6. "A Study of Cumulative Fatigue Damage", **U.S. Navy Air Systems Command** (**\$61,891**, 5/15/80-8/14/81).
7. "Support for Pre-College and Scholarship Programs in the School of Engineering and Architecture", DoD, **DoE, NASA and Industry**, (**\$3.2 million**, 1981-1996).
8. "Investigation of Cumulative Fatigue Damage for Selected Materials", **U.S. Navy, Naval Air Systems Command**, (**\$42,635** 5/15/82-8/31/83).
9. "Characterization of High Cycle Fatigue Behavior of Selected Materials", With Dr. R. Natarajan, **NASA-Marshall Space Flight Center**, **\$108,544**, 8/15/83-812/84).
10. "Characterization of Polymer Adhesives for Composites", with Drs. Dillon and Ludwick, **NASA - Lewis Research Center**, (**\$99,593**, 2/1/884-1/31/85).
11. "Effect of Cutting Speed and Tool Rake angle on the Fatigue Life of AISI 4130 Steel", **NASA-Marshall Space Flight Center**, (**\$15,000**, 6/1/84-5/31/85).
12. "Characterization of High Cycle Fatigue Behavior of Selected Materials", **NASA-Marshall Space Flight Center**, (**\$122,871**, 12/15/84-12/31/86).
13. "Effect of Electric Discharge Machining on the Fatigue Life of Inconel 718", **NASA-Marshall Space Flight Center**, (**\$18,000**, 6/1/85-5/31/86).
14. "Characterization of Fiber Composites", **NASA-Marshall Space Flight Center**, (**\$18,000**, 9/23/85-9/22/86).
15. "Characterization of Polymer Adhesives for Composites", with Dr. Ludwick, **NASA-Langley Research Center** (**\$121,891**, 4/1/85-12/31/86).
16. "Measurement of Residual Stress Distribution in Machining AISI 4130 Steel", **NASA- Marshall Space Flight Center**, (**\$20,000** 9/23/85-9/22/86)
17. "Manufacture and Characterization of Silicon Carbide/ Silicon Carbide Composites", **U. S. Navy, Office of Naval Research**, URI program, (**\$2.25 Million**, 1986-1991).

18. "Aviation Pavement Study for FAA", **Pailen-Johnson Associates**, (\$13,251, 2/1/-9/31/1986).
19. "Effect of Electric Discharge Machining on the Fatigue Life of Inconel 718", **NASA-Marshall Space Flight Center**, (\$18,000, 6/1/86-5/31/87).
20. "Effect of Grinding on the Fatigue Life of Ti 6A1-4V Alloy", **NASA-Marshall Space Flight Center**, (\$124,871, 12/4/86-12/3/87).
21. "Characterization of Fiber Composites", **NASA-Marshall Space Flight Center**, (\$ 20,000, 9/18/86-8/19/87).
22. "Structure and Properties of FM73 and Related Epoxy Adhesives", **NASA-Langley Research Center**, with Dr. Al Ludwick (\$123,385, 3/23/87-2/22/88).
23. "Environmental Effects on the Mechanical Properties of Composite Materials", **NASA-Marshall Space Flight Center**, (\$18,000, 6/1/87-5/30/88).
24. "Determination of Residual Stress Distribution in Machining 2024-T351 Aluminum Alloy", **NASA-Marshall Space Flight Center**, (\$20,000, 6/1/87-5/31/88).
25. "An Evaluation of the Interfacial Bond Properties between Carbon Phenolic and Glass Phenolic Composite Materials" **NASA –Marshall Space Flight Center**, (\$18,000, 6/1988-5/1988).
26. "Manufacture and Characterization of SiC/SiC Composites, **U.S. Navy, Office of Naval Research**, with Drs. Ludwick, Adeyemi and Yang (\$2.25 million, 9/86-9/91).
27. "Development of Capability for Characterization of Ceramic/Ceramic Composites", **U.S. Air Force, Office of Scientific Research**, (\$250,000, 1/89-12/90).
28. "An Investigation of the Effects of Environment and Combined Compression-Shear on the Response of Carbon/PEEK Thermoplastic Composites", **NASA-Marshall Space Flight Center**, (\$256,000, 9/1/98-9/8/1992).
29. "Fractographic Analysis of Advanced Organic Matrix Composites", **U. S. Navy, Naval Air Development Center**, (\$25,000, 10/30/89-/1992)
30. "Characterization of High Cycle Fatigue Behavior of Selected Materials", **NASA- Marshall Space Flight Center**, (\$120,000, 5/1990-4/30/91).

31. "Mechanical Property Testing of Resin Transfer Molded Composites", **McDonnell Douglas Corp.** (\$15,000, 10/92-12/92)., Co-PI with Dr. Hassan Mahfuz.
32. "Fatigue Damage in Composite Materials", **United States Army, Strategic Defense Command** , (\$200,000, 8/90-8/93),
33. "Micro-structural Study of the Thermo-mechanically Fatigued Titanium Aluminide", **U. S. Navy, Naval Warfare Center (NAWC)**, (\$10,000, 9/92-3/93).
34. "Mechanical Property Characterization of Refractory Composites", **National Aerospace Plane (NASP) Joint Program Office**", (\$810,352, 9/90-9/95).
35. "High Temperature Fatigue of $\text{SiC}_f/\text{Si}_3\text{N}_4$ ", **National Science Foundation**, (\$310,000, 9/92-9/95).
36. "Effects of Stress Ratio on Fatigue Damage in Composite Materials", **U. S. Army, Strategic Defense Command**, (\$200,000, 8/90-8/93)
37. "Reverse Fatigue of RTM Composites" – **3M Corporation** (\$45,000, 4/92-4/95). Co-PI with Dr. Hassan Mahfuz.
38. Infrastructure Support For Engineering at Tuskegee University, **Department of Defense**, Army Research Office, (\$ 2.25 million, 1993-1998)
39. "Instrumentation of Fatigue and Compression Characterization Advanced Composites", **U. S. Navy, Office of Naval Research (ONR)**, (\$350,000, 10/93-10/95).
40. "Advanced Polymeric Composites Manufacturing", **Martin Merietta Laboratories**, (\$20,000, 2/1/94-2/1/95), Co-PI with Dr. Hassan Mahfuz.
41. Intelligent Processing of Resin Transfer Molded Composites", **Defense Advanced Research Project Agency (DARPA)**, (\$726,100, 2/95-2/96).
42. "Advanced Polymeric Composites Manufacturing and Damage Tolerance Studies", **Lockheed Martin Manned Space Systems, New Orleans, LA** (\$110,000, 2/94-12-98), Co-PI with Dr. Hassan Mahfuz.
43. "Intelligent Resin Transfer Molding for Integral Armor Applications", **Army Research Office (ARO)**, (\$9,400,000, 9/95-9/2000)
44. "Advanced Composites for Sea Structures", **U. S. Navy, Office of Naval Research**, (\$380,000, 9/95-10/98).

45. "Smart Materials for Transport Control", **National Science Foundation, Alabama EPSCoR, (\$300,000, 9/95-9/98).**
46. "Development and Analysis of Composite Isogrid Structures", **NASA- Marshall Space Flight Center, (\$100,000, 5/95-5/97)** Co-PI with Dr. Hassan Mahfuz.
47. "Advanced Integrated Structural Optimization," **McDonnell Douglas Aerospace, St. Louis, Missouri, (\$50, 000, 1/95-12/95),** Co-PI with Dr. Hassan Mahfuz.
48. . "Damage Tolerance of RTM Composite Sandwich Constructions," **Wright Laboratory (WL), Wright Patterson Air Force Base, (\$300,000, 9/95-9/98),** Co-Pi with Dr. Uday Vaidya.
49. "Innovative Manufacturing of High Performance Materials," **National Science Foundation, Center for Research Excellence in Science and Technology (CREST), (\$4.5 million, 9/97-9/02).**
50. "Instrumentation for the Investigation of Structural Integrity of Sandwich Structures," **U. S. Navy, Office of Naval Research (ONR), (\$92,000, 6/00 - 12/00)**
51. "Resin Infusion of Advanced Aerospace Composites", **Boeing Company, (\$250,000, 9/96-9/01),** Co-PI with Dr. Hassan Mahfuz.
52. "Innovative Manufacturing of Advanced Composites for Automotive Applications", **General Motors Corporation, (\$200,000, 3/98-3/02).**
53. Sandwich Construction for Sea Structures" U. S. Navy, Office of Naval Research, **(\$590,000, 1/99-1/01),** Co-PI with Dr. Hassan Mahfuz.
54. Survivability of Affordable Aircraft Composite Structures, **Air Force Laboratory, Wright Patterson Air Force Base, (\$ 450, 000, 1999-2003),** Co-PI with Dr. Mahesh Hosur.
55. "Dynamic Characterization of Graphite/Epoxy Composite Laminates under Inplane compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated Temperatures", **U.S. Army, Cold Regions Research Laboratory, (\$175,000, 2001-2003)**
56. "A Partnership for Innovations in Nano Composites Technology," **National Science Foundation, (\$600,000, 2/1/01 - 1/31/03).**
57. Innovative Materials and Processes for Next Generation Weapons Systems, **U.S. Army Research Office, (\$900,000, 2001-2004),** Co-PI with Dr. Derrick Dean.

58. “Nanophased Composites for Marine Structures”, **U. S. Navy, Office of Naval Research**, (\$994,000, 2/02-7/04), Co-PI with Dr. Hassan Mahfuz.
59. “Alabama EPSCoR Infrastructure Development”, **National Science Foundation, Alabama EPSCoR**, (\$150,000, 1998-2001).
60. “Alabama Internet II Middleware Initiative”, **National Science Foundation, Alabama EPSCoR**, (\$275,010, 2/1/01-1/31/04).
61. “Acquisition of High Speed Imaging System for Dynamic Characterization of Advanced Materials”, **U. S. Navy, Office of Naval Research**, (\$200,000, 9/1/01-8/31/02).
62. “Support for the PH.D. Program in Materials Science and Engineering at Tuskegee University”, **David and Lucile Packard Foundation**, (\$ 244,000, 2001-2002).
63. “Synthesis, Manufacturing and Characterization of Structural Nanocomposites” Center for Research Excellence in Science and Technology (**CREST**) Program, **National Science Foundation**, (\$4.5million, 9/1/03-8/31/08).
64. “Integrative Graduate Education and Research Training in Nanomaterials Science and Engineering”, Integrative Graduate Education and Research Training (**IGERT**) Program, **National Science Foundation**, (\$3.32 million, 10/01/03-9/30/08).
65. “Studies of Structural Nanocomposites using Transmission Electron Microscopy”, Research Infrastructure in Science and Engineering (**RISE**) Program, **National Science Foundation**, (\$1.0 million, 02/10/04-01/31/06).
66. “Center of Excellence for Composites and Advanced Materials” Air Transportation Center of Excellence for Advanced Materials, **Federal Aviation Administration**, (\$225,000, 06/01/04-05/30/07).
67. “Development of Flexible Extremities utilizing Shear Thickening Fluid/fabric Composites”, Center of Excellence for Battlefield Capability Enhancement (**BCE**), **Army Research Office**, (\$2.23 million, 11/01/04-09/30/09).
68. “Alabama Center for Nanocomposite Materials” Alabama Experimental Program for Stimulating Competitive Research (**EPSCoR**), **National Science Foundation**, (\$1.8 million, 2005-2008), Co-PI with Dr. Mahesh Hosur.

Publications in Refereed Journal

1. “Bailey, J.A. and Jeelani, S. “Surface Integrity in Machining 18% Nickel Maraging Steel”, **ASME Transactions**, 1974, pages 74-185.
2. Bailey, J.A, and Jeelani, S. “Determination of Subsurface Plastic Strain in Machining, Using a Embossed Grid”, **Wear**, Vol. 36, No. 2, 1975, page 199-206.
3. Bailey, J. A., Jeelani, S. and Baker, S. E. “Surface Integrity in Machining Quenched and Tempered AISI 4340 Steel”, **ASME, Journal of Engineering for Industry**. 98 (3) 1976-1979.
4. Jeelani, S. “Measurement of Cutting Temperature in Machining Using Infrared Photography”, **Wear** 68, 1981, pg. 191-202.
5. Bailey, J. A. and Jeelani, S. “State of Subsurface Region in Machining Solution Treated and Aged 18% Nickel Maraging Steel”, **Wear** 72, 1981, pg. 237-243.
6. Jeelani, S. and Reddy, P. A. “A Study of Cumulative Fatigue Damage in 2011-T3 Aluminum Alloy”, **Journal of Materials Science and Engineering**, 561 1982, pg. 237-243.
7. Jeelani, S. and Ramakrishnan, K. “Subsurface Plastic Deformation in Machining Annealed 18% Nickel Maraging Steel”, **Wear**, 85 1982, pg. 263-273.
8. Jeelani, S. and Ramakrishnan, K. “Determination of Subsurface Plastic Strain Distribution in the Machining of Red Brass”, **Wear**, 85 1983, pg. 67-69.
9. Jeelani, S. and Ramakrishnan, K. “Determination of Subsurface Plastic Strain in the Machining of 6-2-4-2 Titanium Alloy”, **Wear**, 85 1983, pg. 121-130.
10. Jeelani, S. and Aslam, M. “A Study of Cumulative Fatigue Damage in 2024-T4 Aluminum Alloy”, **Wear**, 939, 1984, pg. 207-217.
11. Jeelani, S. and Musial, M. “Effect of Cutting Speed and Tool Rake Angle on the Fatigue Life of Aluminum Alloy 2024-T351”, **International Journal of Fatigue**. 6(3) 1984, pg. 169-172.
12. Aslam, M. and Jeelani, S. “Prediction of Cumulative Fatigue Damage”, **Journal of Materials Science**, 20 1985, pg. 3232-3244.
13. Jeelani, S. and Ramakrishnan, K. “Surface Damage in Machining Red Brass”, **Journal of Material Science**, 20 1985, pg. 3011-3017.

14. Jeelani, S. and Ramakrishnan, K. "Surface Damage in Machining 6Al-2Sn-4Zr-2Mo. Titanium Alloy", **Journal of Materials Science**, 20 1985, pg. 3425-3252.
15. Jeelani, S. and Musial, M. "Dependence of Fatigue Life on the Surface Integrity in the Machining of 2024-T351 Aluminum Alloy", Part I, "Un-lubricated Condnsitions". **Journal of Material Science**, **20(1)** 1986, pg. 155-160.
16. Jeelani, S. and Musial, M. "A Study of Cumulative Fatigue Damage in AISI 4130 Steel", **Journal of Materials Science**, 21(1) 1986, pg. 2109-2113.
17. Jeelani, S., Ghebremedhin, S. and Musial, M. "A Study of Cumulative Fatigue Damage in Titanium 6Al-4V Alloy", **International Journal of Fatigue**, 8 No. 1, 1986, pg. 23-27.
18. Jeelani, S. and Bailey, J. A. "Residual Stress Distribution in Machining Annealed 18% Nickel Maraging Steel", **ASME Journal of Materials Science and Technology**, Vol. 108 (1986) 93-98.
19. Jeelani, S., Biswas, S. and Natarajan, R. "Effect of Cutting Speed and Tool Rake Angle on Residual Stress Distribution in Machining 2024-T351 Aluminum Alloy", "A Study of Cumulative Fatigue Damage in AISI 4130 Steel", **Journal of Materials Science**, 21, 1986, pg. 2705-2710.
20. Jeelani, S., Natarajan, R. and Reddy, G. R. "A Sub-sized Fatigue Specimen", **International Journal of Fatigue**, 8, No. 3(1986).
21. Mazumdar, P. and Jeelani, S. "Fatigue Crack Propagation Rate Model Based on a Dislocation Mechanism", **Journal of Materials Science Letters**, 5 (1986) 972-974.
22. Mazumdar, P. and Jeelani, S. "Plastic Deformation – Its Role in Fatigue Crack Propagation", **Journal of Materials Science**, 21, 1986, pg. 3611-3614.
23. Jeelani, S. and Collins, M. R. "Effect of Electric Discharge Machining on the Fatigue Life", **International Journal of Fatigue**, 10 No. 2 (1988) pg. 121-125.
24. Jeelani, S. and Scott, M. A. "How Surface Damage Removal Affects Fatigue Life", **International Journal of Fatigue**,. 10 No. 4 (1988) pg. 257-260
25. Haque, A., Copeland, C. W., Zadoo, D. P. and Jeelani, S. "Hygrothermal Influence on Flexural Properties of Kevlar-Graphite/Epoxy Hybrid Composites", **Journal of Reinforced Plastics and Composites**, Vol. 9, November 1990, pp. 602-613

26. Haque, A. Moorehead, L., Zadoo, D. P. and Jeelani, S. "Hygrothermal Influence on interlaminar Shear Strength of Kevlar-Graphite/Epoxy Hybrid Composites", **Journal of Materials Science**, 25, 1990, pg. 4639-4643.
27. Haque, A., Mahmood, S., Walker, L. and Jeelani, S. "Moisture and Temperature Induced Degradation in Tensile Properties of Kevlar 49/Graphite-Epoxy Hybrid Composites", **Journal of Reinforced Plastics and Composites**, Vol. 10/No. 2, March 1991, pp. 132-145.
28. Jordan, K., Clinton, R. and Jeelani, S. "An Evaluation of the Interfacial Bond Properties between Carbon Phenolic and Glass Phenolic Composites", **Journal of Materials**, 26 (1991), 6016-6022.
29. Rangaswamy, P Terutung, H. and Jeelani, S. "Effect of Grinding Conditions on the Fatigue Life of Titanium 5AL-2.5SN Alloy", **Journal of Materials Science**, 26 No. 10 pp. 2701-2706, 1991.
30. Haque, A. and Jeelani, S. "Environmental Effects on the Compressive Properties: Thermosetting vs. Thermoplastic Composites", **Journal of Reinforced Plastics and Composites**, Vol. 2, February 1992, pp. 146-157.
31. Huq, N., Haque, A. and Jeelani, S. "Fracture Toughness Measurements on SiC/Al₂O₃ Composite" **Journal of Material Science**, 27 (1992) pp. 5989-5993.
32. Mahfuz, H., Sue, D., Jeelani, S., Baker, D. M. and Johnson, S. "Non-Linear Response of 2-D Carbon-Carbon Composites by Layered Shell Elements", **Developments in Theoretical and Applied Mechanics** in, Vol. 16, (1992) pp. III.I. 62-72.
33. Mahfuz, H., Ingram, C. I. and Jeelani, S. "Compressive Response of Thermoplastic Composites by Layered Shell Elements", **Computers in Engineering**, Vol. 2, ASME, 1992, pp. 95-101.
34. Salekeen, S., Haque, A., Copes, J. S., Mahfuz, H. and Jeelani, S. "Effects of Reinforcement Geometry on the Mechanical Properties of SiC/Al₂O₃ Composites and Prediction of Flexural Properties by Energy Method", **Journal of Composites Engineering**, Vol. 2, No. 4, pp. 239-247, 1992.
35. Mahfuz, H., Yu, T. and Jeelani, S. "High Cycle Fatigue Characterization of Titanium 5A1-2.5Sn Alloy", **Journal of Materials Science**, 28 (1993) pp. 138-144.
36. Mahfuz, H., Das, P. S., Jeelani, S., Baker, D. M. and Johnson, S., "Failure Mechanisms in Mission Cycled Carbon/Carbon Composites under Flexural Load at Room and Elevated Temperatures", **Journal of Materials Science**, 28 (1993) pp. 5880-5886.

37. Mahfuz, H., Das, P. S., Jeelani, S., Baker, D. M. and Johnson, S., "Effect of Mission Cycling on the Fatigue Performance of SiC Coated Carbon-Carbon Composites", **International Journal of Fatigue**, Vol. 15, No. 4 (1993) pp. 283-291.
38. Mahfuz, H., Das, P. S., Xue, D., Krishnagopalan, J. and Jeelani, S. "A Combined Experimental and Finite Element Study to Predict The Failure Mechanisms in SiC coated Carbon/Carbon Composites at Room and Elevated Temperatures Under Flexural Loading", **Journal of Reinforced Plastics and Composites**, Vol. 12, No. 7, July 1993, pp. 825-842
39. Haque, A., Krishnagopalan, J. and Jeelani, S. "Fatigue Damage in Laminated Composites", **Journal of Reinforced Plastics and Composites**, Vol. 12, No. 10 October 1993, pp. 1058-1069.
40. Mahfuz, H., Xue, D., Jeelani, S., Baker, D. M. and Johnson, S. "Response of SiC Coated Carbon-Carbon Composites at Room and Elevated Temperatures under Tensile Loading", **Composite Science and Technology**, 50 (1994) 411-422.
41. Haque, A., Mahfuz, H., Ingram, C. and Jeelani, S. "Response of Thermoplastic and Thermosetting Composites Under Compressive Loading- An Experimental and Finite Element Study", **Composites Engineering**, Vol. 4, No. 6, 1994, pp. 637-651.
42. Vaidya, U. K., Mahfuz, H. and Jeelani, S. "NDE of Structural and Functional Carbon/Carbon Composites after First Carbonization", **Journal of Advanced Materials**, Vol. 26, No. 2, pp. 41-47, 1995.
43. Mahfuz, H., Zadoo, D., Wilks, F., Muneeruzzaman, M. and Jeelani, S., "Fracture and Flexural Characterization of SiC_w/SiC Composites at Room and Elevated Temperatures", **Journal of Materials Science**, 1995, Vol. 30, pp. 2406-2411.
44. Mahfuz, H., Muneeruzzaman, M., Vaidya, U. K. and Jeelani, S. "Fatigue Damage and Effects of Stress Ratio on the Fatigue Life of Carbon-Carbon Composites", **Theoretical and Applied Fracture Mechanics**, 24 (1995), 21-31.
45. Mahfuz, H., Saha, M., Haque, A., Vaidya, U. K. and Jeelani, S. "Fatigue Damage and Residual Strength of Resin Transfer Molded Composites under Reversed Cyclic Loading," **Innovative Processing and Characterization of Composite Materials**, ASME 1995, NCA-Vol. 20/AMD-Vol.21 1, pp. 77-88.
46. Mahfuz, H., Haque, A., Yu, D. and Jeelani, S. "Response of Resin Transfer (RTM) Composites under Reverse Cyclic Loading", **Transaction of the ASME, Journal of Engineering Materials and Technology**, Vol. 118, pp. 49-57, 1996..

47. Vaidya, U. K., Mahfuz, H. and Jeelani, S. "NDE of Sandwich and Hybrid Carbon-Carbon Composites", **Journal of Reinforced Plastics and Composites**, Vol. 15, October 1996, pp. 988- 1010.
48. Vaidya, U. K., Dadzie, P., Haque, A., Mahfuz, H. and Jeelani, S. "NDE and Characterization of Micro fibers Modified Textile Carbon/Phenolic and Carbon/Carbon Composites", **Journal of Reinforced Plastics and Composites**, Vol. 16, No. 11, 1997, pp. 968- 1001.
49. Mahfuz, H., Muneeruzzaman, M., Vaidya, U. K. and Jeelani, S. "Response of $\text{SiC}_f\text{Si}_3\text{N}_4$ Composites under Cyclic Loading - An Experimental and Statistical Analysis," **Transaction of the ASME, Journal of Engineering Materials and Technology**, Vol. 119, pp 186-193, April 1997.
50. Haque, A., Johnson, J., Vaidya, U. K. and Jeelani, S. "Fatigue Damage in S2-Glagg/Vinyl Ester Thick Composites", **NCA-Vol. 24, ASME, 1997**, pp.247-257.
51. Gajiwala, H. M., Vaidya, U. K., Sodah, S. and Jeelani, S. " Hybridized Resin Matrix Approach Applied for Development of Carbon/Carbon Composites: Part-I", **Carbon**, Vol. 36, No. 7-8, pp. 903-912, 1998.
52. Mahfuz, H., Saha, M., Biggs, R. and Jeelani, S. "Damage Tolerance of Resin Infiltrated Composites under Low Velocity Impact - Experimental and Numerical Studies," **Key Engineering Materials**, Trans. Tech Publications, Switzerland, Vol. 141-143 (1998), pp. 209-234.
53. Mahfuz, H., Lokesh, B., Vaidya, U. K. and Jeelani, S. "Experimental and Finite Element Hybrid Stress Analysis of Thick Section S2-Glass Composites," **Developments in Theoretical and Applied Mechanics**, Vol. 9 (I 998), pp. 117-128.
54. Mahfuz, H., Mian, A. K. M., Vaidya, U. K., Brown, T. and Jeelani, S. "Finite Element Study of the Fiber-Matrix Interface Behavior of [0/90] Laminated Composites Under Tensile Loading," **Journal of Materials Science**, 33 (1998) 2965-2973.
55. Vaidya, U. K., Kamath, M. V., Mahfuz, H. and Jeelani, S. "Low Velocity Impact Response of Resin Infusion molded foam Filled Honeycomb Sandwich Composites," **Journal of Reinforced Plastics and Composites**, Vol. 17, No. 9, 1998, pp. 819-849.
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- 339.M. K. Hossain, M. E. Hossain, M. Hosur and S. Jeelani, "Comparison of High Strain Rate Compressive Responses of Conventional and CNF-Filled Nanophased E-Glass/Polyester Composites," Materials Science & Technology 2010 Conference & Exhibition. Houston, TX, October 17-21, 2010.
- 340.Mahesh Hosur, Rajib Barua, Shaik Zainuddin, Shaik Jeelani, "Processing and Characterization of VGCNF Infused Epoxy Nanocomposites Using Three Different Techniques," SAMPE Fall Conference, 11-14 October, 2010, Salt Lake City, UT.
- 341.Mahesh V. Hosur, Rajib Barua, Shaik Zainuddin, Shaik Jeelani, Ashok Kumar, Jonathan Trovillion, "Processing Optimization and Characterization of MWCNT infused Epoxy Nanocomposites Using Three Different Techniques," proceedings of the American Society for Composites, technical conference, Sept. 19-21, 2010, Dayton, OH.
- 342.G. Strawder, M. Hosur, S. Jeelani, "Thermal and Mechanical Studies of Wood Flour Reinforced Polyurethane Composites," proceedings of the American Society for Composites, technical conference, Sept. 19-21, 2010, Dayton, OH.
- 343.M.K. Hossain, M.W. Dewan, M. Hosur, S. Jeelani, "Mechanical and Thermal Characterization of Modified Jute/Biopol Nanophased Green Composite," Proceedings of the American Society for Composites, Technical conference, Sept. 19-21, 2010, Dayton, OH.
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 351. Mohammad K. Hossain, Muhammad E. Hossain, Mahesh V. Hosur and Shaik Jeelani, “Dynamic Characterization of CNF-Filled E-Glass/Polyester Nanophased Composite,” Proceedings of the SAMPE '10, the International SAMPE Symposium and Exhibition, Seattle, WA, USA, May 17-20 (2010).
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 353. Md. A. Bhuiyan, M. V. Hosur, S. Jeelani, “Low-Velocity Impact Behavior of Sandwich Composites with Neat and Nanophased Foam Core and Triaxial (0±45° and 0±60°) Braided Carbon Fiber Face Sheets, International Conference on Computational & Experimental Engineering and Sciences, ICCES10, Las Vegas, March 29-April 2, 2010.H.
 354. Mahfuz, F. Powell, R. Granata, M. Hosur, “Treatment of Carbon Fibers with POSS and Enhancement in Mechanical Properties of Composites,” Proceedings of the SAMPE '10, the International SAMPE Symposium and Exhibition, Seattle, WA, USA, May 17-20 (2010).
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 356. Rangari, V., T.A.Hassan, S.Jeelani R.K.Rana, Size Reduction of Egg Shell Particles: The Effect of Ball Milling and Sonication Time Variation, MRS-Fall meeting Nov 30th 2010, Boston
 357. Rangari, V., A.Perveen and S.Jeelani, Synthesis and Crystal Growth of Iron Oxide Nanoparticles for Drug Delivery Applications, MRS-Fall meeting Nov 29th 2010, Boston
 358. Rangari, V., M.Ghouse, Seyhan Boyoglu and Shaik Jeelani, Synthesis of ZnO/CNTs hybrid nanoparticles and their reinforcement in Nylon-6 polymer fibers, , ACCM-7 (The 7th Asian-Australian Conference on Composite Materials) Nov 15-18, 2010, Taipei, Taiwan
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 360. Rangari,V., Sanchita Dey and Shaik Jeelani, Synthesis of Au and Au/Cu alloy nanoparticles on multiwalled carbon nanotubes by using microwave irradiation, , 18th Congress IFHTSE, July, 26 to 30th , 2010, in Rio de Janeiro - RJ - Brazil,

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362. Rangari, V., M. Yousuf, S. Jeelani, Alignment of Si₃N₄ nanorods in Polypropylene single fibers, Nanotech June 21-24, 2010, Anaheim, CA
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Technical Reports

1. "Power Accelerator System for Axial Impact Studies", Report No. 69-3, February 1969 for the Department for the US Navy Office of Naval Research. No. N00014-68-0187
2. "Design and Performance of Power Accelerator Systems for Impact Studies", Technical Report No. 71-2 for the US Navy Office of Naval Research. No. N00014-68-0197.
3. "Two State Light-Gas Gun Installation for Hyper-Velocity Impact Studies", Report No. 73-3 for the US Navy Office of Naval Research. Ministry of Defense, Contract No. N00014-0197.
4. "Surface Integrity in the Machining of Certain High Strength Materials Part II (Measurement of Residual Stress),"

5. Surface and Sub-Surface Damage in the Machining of 18% Nickel Maraging Steel, 6242 Titanium Alloy and Red Brass”. For the National Science Foundation, Grant GH-33761.
6. “Prediction of Cumulative Fatigue Damage”. Report No. TI-NAVY-1 for the Department of the US Navy, Naval Air Systems Command. Contract No. N00019-78-0034.
7. “Investigation of Cumulative Fatigue Damage for Selected Materials”, Report No. TI-NAVY-2 for the Department of the US Navy, Naval Air Systems Command, Contract No. N00019-80-c-0564.
8. “A Study of Cumulative Fatigue Damage in 2024-T4 Aluminum Alloy”. Report No. TI-NAVY-3 for the Department of the US Navy, Naval Air Systems Command. Contract No. N00019-80-c-0564.
9. “A Study of Cumulative Fatigue Damage in 2011-T3 Aluminum Alloy”. Report No. TI-NAVY-4 for the Department of the US Navy, Naval Air Systems Command. Contract No. N00019-79-c-0564.
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11. “Effect of Cutting Conditions on Fatigue Life of 2024-T351 Aluminum Alloy”, Report No. TI-NAVY-6 December 1983 for the Department of the US Navy, Naval Air Systems Command, Contract No. N00019-82-c-0316
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13. “Effect of Electric Discharge Machining on the Fatigue Life of Inconel 718”, for NASA-MSFC, under Grant No. NGT-01-005-751.
14. “A New Technique of Fatigue Life Prediction”. Report for NASA-MSFC, Under Grant No. NAG-068, April 1988.
15. “Manufacture and Characterization of SiC/SiC Composites”, TU-ONR/URI-1, (September 15, 1986 – September 30, 1987).
16. “Manufacture and Characterization of SiC/SiC Composites”, TU-ONR/URI-2, (October 1, 1987 – September 30, 1988).

17. Hygrothermal Influence on Flexural Properties of Kevlar 49-Graphite/Epoxy Hybrid Composites”, TU-ONR/URI-2/E (October 1, 1987-September 30, 1988.)
18. Hygrothermal Influence on Inter-laminar Shear Strength of Kevlar 49-Graphite/Epoxy Hybrid Composites”, TU-ONR/URI-2/F (October 1, 1987-September 30, 1988.)
19. “Manufacture and Characterization of SiC/SiC Composites”, TU-ONR/URI-3, (October 1, 1988 – September 30, 1989).
20. “Moisture and Temperature Induced Degradation in Tensile Properties of Kevlar-Graphite/Epoxy Hybrid Composites”, TU-ONR/URI-3/B
21. “Characterization of Ceramic/Ceramic Composites”, TU-ONR/URI-3/C. (October 1, 1988-September 30, 1989.)
22. Characterization of Ceramic/Ceramic Composites”, TU-ONR/URI-4
23. “Effects of Reinforcement Geometry on the Mechanical Properties of $\text{SiC}_w/\text{Al}_2\text{O}_3$ Composites”, TU-ONR/URI-4E.
24. “High Temperature Characterization of SiC_w/SiC Composites and Prediction of Flexural Properties by Energy Method”, TU-ONR/URI-5A.
25. “Compressive Response of Thermoplastic Composites by Layered Shell Elements”, ALCOA Foundation, Pittsburgh, Pennsylvania.
26. Mechanical Property Characterization of Refractory Composites”, National Aerospace Plane/Joint Program Office (NASP/JPO), WPAFB, OH.
27. An Investigation of the Effects of Environment and Compression on the Response of Carbon/Peek Thermoplastic Composites”, NASA Marshall Space Flight Center, Huntsville, AL.
28. Mechanical Property Testing of Resin Transfer Molded Materials”, McDonnell Douglas Missile Systems, St. Louis, Missouri.
29. Reverse Fatigue of RTM Composites”, 3M Corporation, St. Paul, Minnesota.
30. “Effect of Stress Ratio on the Fatigue Damage in C/C Composites”, Strategic Defense Command (SDC), US Army, Huntsville, Alabama.
31. “High Temperature Fatigue of Continuous Fiber Reinforced Silicon Carbide/Silicon Nitride Composites”, National Science Foundation (NSF), Washington, DC 20550.

32. "Survivability of Affordable Aircraft Composite structures" Interim Progress Report, April 2001, Air force Research laboratory, Grant No. F33615-99-C-3608
33. "Dynamic Characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures", Interim Progress Report, September 2001, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039
34. "Survivability of Affordable Aircraft Composite Structures" Interim Progress Report, October 2001, Air force Research Laboratory, Grant No. F33615-99-C-3608
35. "Dynamic Characterization of Graphite/Epoxy Composite Laminate Under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated temperatures", Interim Progress Report, January 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039
36. "Dynamic Characterization of Graphite/Epoxy Composite Laminate under Inplane Compression, Single and Double Lap Shear Loading at Subzero, Room and Elevated Temperatures", Interim Progress Report, June 2002, U.S. Army Cold Regions Research Laboratory, Grant No. DACA42-01-C-0039

Honors and Award

1. Global Messenger Award presented by Southeastern Consortium for Minorities in Engineering (SECME), 2001
2. Outstanding Contribution Award by the National Association of Minority Program Administrators (NAMEP A), 1996
3. Exxon Foundation Faculty Development Award for Outstanding Research, 1984.
4. Outstanding Teacher from ME Department, 1978-1979
5. Outstanding Teacher from School of Engineering, 1977-1978
6. Outstanding Teacher from ME Department, 1977-1978
7. Faculty Achievement Award, 1977
8. Outstanding Teacher from School of Engineering, 1977
9. UNCF Professor of the Year, 1976
10. Tuskegee Teacher of the Year, 1976

11. Outstanding Teacher from ME Department, 1975-1976

Professional and Scientific Societies

Registered Professional Engineering in the State of Alabama, (Alabama PE#1197)

Member, American Society of Mechanical Engineers (ASME)

Member, American Society of Engineering Education (ASEE)

Member, Society of Experimental Stress Analysis (SESA)

Member, American Ceramic Society

Member, Sigma XI

Member, Pi Tau Sigma Honor Society

Secretary of Chattahoochee Sub-Section of ASME, 1984-1985

Vice President of Chattahoochee Sub Section of ASME, 1985-1986

Secretary of Chattahoochee Sub-Section of ASME, 1986-1987, 1987-1988

Member, American Ceramic Society

K-12 Initiatives

Dr. Jeelani was responsible (1980-1996) for writing proposals and raising approximately \$600,000 each year and conducting recruitment and retention programs in the School of Engineering and Architecture at Tuskegee University. Most significant one was the \$2.25 million grant from the DOD/ ARO grant for the period 1993-1998.

Tuskegee University is well known for its innovative K-12 programs- all designed and implemented by Dr. Jeelani, during his tenure as a faculty member and Associate Dean of Engineering and Architecture. These programs have become effective mechanisms to identify, motivate and recruit students for academic programs in science and engineering. The programs are briefly described below.

. Saturday Academy

The program was offered for 8th through 12th graders attending Schools in Macon County, Alabama, throughout the academic year to strengthen their background in Mathematics, Physics, Chemistry, Biology and Physical Science, so that they could qualify for admission in science and engineering curricula at the college level. **Approximately 100 students were served, each year.**

Pre-Freshman Enrichment Program (PREP-8, PREP-9 and PREP-10)

These were six-week summer programs for students completing their 8th, 9th, and 10th grades, respectively. PREP consisted of instruction in Mathematics, Biology, Chemistry, Physics and Computer Programming. Laboratory sessions were designed to provide students with experience in experimentation, report writing and problem solving. Field trips were arranged for the students' professional development. **Approximately 75 students were served, each summer.**

Minority Introduction to Engineering (MITE)

MITE was a one to two week summer program designed to expose high school juniors/rising seniors to various aspects of engineering and college life. The main features of the program were lectures on engineering by faculty and engineering alumni, laboratory demonstrations, seminars, field trips and picnics. The program was offered at no cost to the students, except their transportation to and from Tuskegee. **Approximately 60 students were served through MITE, each summer.**

Research Apprenticeship for Disadvantaged High Schoolers (RADHS)

RADHS was a summer program designed to provide high school juniors/rising seniors the opportunity for "hands on" laboratory experience under the supervision of research faculty. The students were also provided instruction in Computer Programming, Computer Aided Design, Technical Writing and basic skills in research. Seminars, guest lectures, field trips and career counseling were some additional features of RADHS. The students were provided a stipend at a rate of minimum wage for the entire duration of the program. **Approximately 20 students were involved in RADHS, each summer.**

Freshmen Accelerated Start-Up and Training for Retention in Engineering Curricula (FASTREC)

FASTREC was an eight-week summer program offered at Tuskegee every year for high school graduates who were about to enter college. In the FASTREC program students pursued an intensive program of study in English, Mathematics and Engineering Graphics or Computer programming. Up to ten semesters credit hours were be earned towards the B.S. Degree in Engineering. The students also attended guest lectures, seminars, field trips and picnics. The program was at no cost to the student. Non-commuting students were required to stay in the campus dormitory. **Approximately 100 students participated in FASTREC, each summer.**

MITE, RADHS and FASTREC are still offered at Tuskegee University. At least 90% of the FASTREC participants enter science and engineering programs at Tuskegee University.

Scholarship and Mentoring Program

Dr. Jeelani has developed and implemented an impressive scholarship and mentoring program with support from the industry and the national labs. Corporations and foundations such as Boeing, Ford Foundation, GEM, General Electric, General Motors, NACME, Proctor and Gamble and Raytheon provide scholarship and mentoring support for students. Students are selected for these scholarships based on merit and need. Scholarship recipients are also assigned the responsibility of tutoring and mentoring their juniors and serving as big brothers and big sisters. Dr. Jeelani has authored several educational partnership agreements (**EPA**) with corporations and national labs. These EPAs include scholarships, support with academic preparation, internships and mentoring. Two EPAs, Tuskegee-Raytheon and Tuskegee-AFML (Air Force Materials Laboratory), are being replicated at other institutions.