



**PRAIRIE VIEW
A&M UNIVERSITY**

Curriculum Vitae

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|-----------------------------------|---|---|---|---|
| Faculty Name: | ZIAUL HUQUE | | Work Address: | P.O. Box 519; MS 1060 Prairie View, TX 77446 |
| Position Title: | Professor | | | |
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| Education: | Degree and Area of Study | Institution Name | Degree Date | |
| | PhD Mechanical Engineering | Oregon State University | 1991 | |
| | MS Mechanical Engineering | Clemson University | 1982 | |
| | BS Mechanical Engineering | Bangladesh University of Engineering & Technology | 1980 | |
| Teaching Experience | Position Title | Institution Name | Position Dates (Beginning and End) | |
| | Professor | Prairie View A&M University | 09/08 - Present | |
| | Director, Center for High Pressure Combustion (CHPC) | Prairie View A&M University | 10/01/19-Present | |
| | Director, CFD Institute | Prairie View A&M University | 01/96 - Present | |
| | Associate Professor | Prairie View A&M University | 09/00 – 08/08 | |
| | Assistant Professor | Prairie View A&M University | 09/92 - 08/00 | |
| | Research Associate | Brigham Young University | 01/91 - 08/92 | |
| Professional Publications: | Hyoung-Chul Kim, Hongbo Du, Raghava R. Kommalapati, Ziaul Huque, Xinhua Shen, Computational fluid dynamic simulation modeling of carbon capture using polyethylenimine impregnated protonated titanate nanotubes, <i>Energy Science & Engineering</i> , 2020. Vol 8(7): p. 2311-2321. | | | |
| | Kommalapati, R.R., H. Du, M.L. Stewart, X. Shen, and Z. Huque, The Effects of Synthesis Conditions on the Carbon Capture Capacity of Polyethylenimine Impregnated Protonated Titanate Nanotubes. <i>Science of Advanced Materials</i> , 2020. 12 (2): p. 228-236. IF – 1.318. | | | |
| | Howard, A., V.S. Botlaguduru, H. Du, R.R. Kommalapati, and Z. Huque, <i>Measurements and Comparative Air Quality Analysis of a Goat Farm Operation</i> . <i>Transactions of the ASABE</i> , 2019. 62 (6): p. 1723-1733. IF – 1.156 | | | |
| | Zemmouri, F, M. S. Chowdhury, Z. Huque and R. R. Kommalapati, "Static Structural Analysis of a Pointed Tip Wind Turbine Blade Using FSI", <i>International Journal of Engineering Sciences</i> , 2018, 11(1), p. 7-12. | | | |
| | Chipindula, J., V. Botlaguduru, H. Du, R. Kommalapati, and Z. Huque, <i>Life Cycle Environmental Impact of Onshore and Offshore Wind Farms in Texas</i> . <i>Sustainability</i> , 2018. 10(6): Article ID: 2022. | | | |
| | Du, H., Z. Huque, and R.R. Kommalapati, <i>Impacts of Biodiesel Applied to the Transportation Fleets in the Greater Houston Area</i> . <i>Journal of Renewable Energy</i> , 2018. 2018: Article ID 7350715. | | | |
| | Kyoungsoo Lee, Ziaul Huque, Raghava Kommalapati, Sang-Eul Han, "Fluid-Structure Interaction Analysis of NREL Phase VI Wind Turbine Part-2: Aerodynamic Force Evaluation and Structural Analysis using FSI analysis", <i>Renewable Energy</i> , 113 (2017), pp. 512-531. | | | |
| | Kyoungsoo Lee, Shrabanti Roy, Ziaul Huque, Raghava Kommalapati and SangEul Han, "Effect on Torque and Thrust of the Pointed Tip Shape of a Wind Turbine Blade", <i>Energies</i> , 2017, 10, 79; doi:10.3390/en10010079. | | | |

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| | Shrabanti Roy, Ziaul Huque, Kyoungsoo Lee, and Raghava Kommalapati, "Turbulence Model Prediction Capability in 2D Airfoil of NREL Wind Turbine Blade at Stall and Post Stall Regions", <i>Journal of Clean Energy Technologies</i> , Vol. 6.No. 6, pp. 496-500, 2017. |
| | Kyoungsoo Lee, Shrabanti Roy, Ziaul Huque, Raghava Kommalapati, Chao Sui and Nazia Munir, "Pointed Tip Shape Effect on Aerodynamic Load for NREL Phase VI Wind Turbine Blade", <i>Journal of Clean Energy Technologies</i> , vol. 4, no. 4, pp. 284-289, 2016. |
| | Kyoungsoo Lee, Ziaul Huque, Raghava Kommalapati, Shrabanti Roy, Chao Sui and Nazia Munir, "Aerodynamic Noise Characteristics of Horizontal Axis Wind Turbine Blade Using CAA", <i>Journal of Clean Energy Technologies</i> , vol. 4, no. 5, pp. 346-352, 2016 |
| | Nazia Binte Munir, Ziaul Huque, Raghava R. Kommalapati1, "Impact of Different Parameters on Life Cycle Analysis, Embodied Energy and Environmental Emissions for Wind Turbine System", <i>Journal of Environmental Protection</i> , 2016, 7(07), 1005-1015. |
| | Lee, Kyoung-Soo, Huque, Ziaul, Kommalapati, Raghava and Han, Sang-Eul, "Evaluation of Equivalent Structural Properties of NREL Phase VI Wind Turbine Blade", <i>Renewable Energy</i> , 86 (2016), pp. 796-818. |
| | Kadiyala, A., R. Kommalapati, and Z. Huque, <i>Evaluation of the Life Cycle Greenhouse Gas Emissions from Different Biomass Feedstock Electricity Generation Systems</i> . Sustainability, 2016. 8(11): p. 1181. |
| | Xinhua Shen, Raghava Kommalapati, and Ziaul Huque , 2015, The Comparative Life Cycle Assessment of Power Generation from Lignocellulosic Biomass, <i>Sustainability</i> , Vol 7, No 10, PP 12974-12987. |
| | Kyoungsoo Lee, Ziaul Huque , SangEul Han, "Analysis of stabilizing process for stress-erection of Strarch frame", <i>Engineering Structures</i> ; 2014(02), Vol. 59: pp. 49–67. |
| | Ziaul Huque and Saugata Sarkar, "Pareto Optimal Front in Multi-Objective Optimization of Rocket Based Combined Cycle Inlet/Ejector System", <i>Advances and Applications in Fluid Mechanics</i> , Volume 10, Number 1, pp 1-20, 2011. |
| | Ziaul Huque , Muhammad R. Ali and Raghava Kommalapati, "Application of Pulse Detonation Technology for Boiler Slag Removal", <i>Fuel Processing Technology</i> , 90, pp 558-569, 2009. |
| | Z. Huque and G.M.S. Azad, "Thermal Conductivity Effects on Steady State Propagation Speed During Self-Propagating High-Temperature Synthesis of Ti+C Green Comapcts", <i>Materials Science and Engineering B</i> , 147(2008), pp 19-26. IF- 4.706 |
| | Nayem Jahingir and Ziaul Huque, "Design Optimization of Rocket Based Combined Cycle Inlet/Ejector System", <i>Journal of Propulsion and Power</i> , Volume 21, Number 4, pp. 650-655, 2005. IF-1.362 |
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| External Funding | "Center for High Pressure Combustion in Microgravity (CHPC) – Director & P.I. , Funding Agency: NASA . Funding amount: \$3,000,000 . Funding period: October 01, 2019 - September 30, 2022. |
| | "CREST Center for Energy and Environmental Sustainability (CEES) – Phase II", Co.P.I. , Funding Agency: NSF . Funding amount: \$5,000,000 . Funding period: October 01, 2019 – September 30, 2024. |
| | "Develop a Novel Nanomaterial for Application in Post-Combustion CO ₂ capture", Co.P.I. , Funding Agency: DOE . Funding amount: \$249,000 . Funding period: October 01, 2014 – August 31, 2017. |
| | "CREST Center for Energy and Environmental Sustainability (CEES) – Phase I", Co.P.I. , Funding Agency: NSF . Funding amount: \$5,000,000 . Funding period: October 01, 2010 – September 30, 2019. |
| | "Turbomachinery Design Optimization", P.I. , Funding Agency: NASA (CUIP) . Funding amount: \$125,000 . Funding period: August 20, 2007 - August 19, 2012. |
| | "University Consortium on Reusable Launch Vehicle", P.I. , Funding Agency: NASA (URETI) . Funding amount: \$350,000 . Funding period: August 19, 2002 - August 18, 2007. |
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| Additional Trainings/Skills: | Journal reviewer |
| | Graduate student thesis adviser |
| | Graduating students course auditor |
| | Transfer Student Advisor |