ARMY EDUCATIONAL OUTREACH PROGRAM
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Undergraduate Internship Opportunity at The University of Memphis

- "An ultrasonic feeding mechanism for continuous aerosol generation from cohesive powders." **Aerosol Science and Technology 53(3): 321-331 (2019).**
- "Scalable generation of high concentration aerosol in the size range of 0.1–10 μm from commercial powders using ultrasonic dispersion." **Powder Technology 376: 52-59 (2020).**
- Systems and methods for dispersion of dry powders **US patent 11,358,112**

Apply by Feb 29, 2024!

TO APPLY

ABOUT DR. GOPALAKRISHNAN

SCAN ME

University of Memphis

Subject area: Mechanical Engineering

- Two months of hands-on laboratory research experience
- Develop ultrasonic powder dispersion techniques for materials processing.
- Attractive pay of **$20/hour** for full-time employment during Summer
- Project involves designing a method to introduce ceramic powders into a plasma operated at low-pressure.
- Research aimed at crafting a technique to introduce and quantify the gas-phase concentration of aerosol particles.
- Carry out design and execution of measurement technique using aerosol instrumentation for validation of developed dispersion routines.

Work-site : Department of Mechanical Engineering, University of Memphis, Memphis TN 38152.

Dr. Ranganathan Gopalakrishnan

Associate Professor, University of Memphis
2020 Department of Energy Early Career Award Recipient