

Post-Doctoral Research Fellow, Mechanical Engineering  
University of Memphis

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Posted Jul. 23, 2024, set to expire Nov. 22, 2024

**Job Title** Post-Doctoral Research Fellow, Mechanical Engineering  
**Department** Mechanical Engineering  
<https://www.memphis.edu/me/faculty/gopalakrishnan.php>  
**Institution** University of Memphis  
Memphis, Tennessee

**Date Posted** Jul. 23, 2024

**Application Deadline** Open until filled

**Position Start Date** Jan. 1, 2025

**Job Categories** Post-Doc

**Academic Field(s)** Mechanical Engineering  
Engineering Physics  
Chemical/Petroleum

**Apply Online Here** <https://workforum.memphis.edu/postings/41355>

**Apply By Email**

**Job Description**

Postdoctoral associate will work with Prof. Ranganathan Gopalakrishnan and his research group in a highly collaborative environment to conceive experiments, conduct research, and analyze data to develop commercial prototypes based on a patented ultrasonic powder dispersion method invented by Prof. Gopalakrishnan and his research group members.

Dr. Ranganathan Gopalakrishnan, Associate Professor:  
<https://www.memphis.edu/me/faculty/gopalakrishnan.php>

US patent describing this technology: <https://patents.google.com/patent/US11358112B2/en>

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Peer-review articles describing this technology:

*Aerosol Science and Technology* journal: <https://doi.org/10.1080/02786826.2018.1559920>

*Powder Technology* journal: <https://doi.org/10.1016/j.powtec.2020.08.009>

Potential postdoctoral candidates should hold a PhD degree in related disciplines such as mechanical engineering, chemical engineering, applied physics related to the powder technology targeted for commercialization. They should be able to work independently and with modest scientific mentoring to implement the vision of Prof. Gopalakrishnan and the startup company to be launched soon to achieve commercialization goals.

**Minimum Position Qualifications:** A Ph.D. with emphasis on research related to powder or aerosol technologies. Advanced ABD's may be considered if degree completion is imminent by the start date. Strong oral and written communication skills and interpersonal skills, including a proven ability to work both independently and as part of a team.

**Desired Qualifications:**(Ideal applicant; applicants without these skills will be considered).

- Strong record of prior publication in areas related to aerosol or powder technology.
- Strong interest in translational research related to powder or aerosol technology and desire to pursue prototype development related to patented ultrasonic powder dispersion technology developed in Prof. Gopalakrishnan's group.
- Strong interest in working in a lab environment carrying out fabrication, testing, and development of aerosol generation devices.
- Strong interest in contributing to the preparation of competitive funding proposals to secure funding from government and private sources for technology commercialization.

**Preferred Qualifications** (not required but would be welcome): Previous entrepreneurial experience (e.g., NSF I-corps, SBIR or STTR related activities, working in a startup)

**Special Conditions:**This is a limited 18-month position. Initial appointment will be made for 6 months with the opportunity for two extensions **Projected start date for is expected to be January 1, 2025.** Screening of applications will begin immediately and will continue until a suitable candidate is identified.

Further details and information about how to apply through official University of Memphis website can be found here: <https://workforum.memphis.edu/postings/41355>

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**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Dr. Ranganathan Gopalakrishnan  
Mechanical Engineering  
University of Memphis  
312 Engineering Science Building  
Memphis, TN 38152

**Contact E-mail** [rgplkrsh@memphis.edu](mailto:rgplkrsh@memphis.edu)