

Postdoctoral Fellowship - TWO Open Positions FAMU-FSU College of Engineering

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Posted Apr. 25, 2022, set to expire Aug. 25, 2022

Job Title	Postdoctoral Fellowship - TWO Open Positions
Department	Chemical & Biomedical https://www.eng.famu.fsu.edu/cbe
Institution	FAMU-FSU College of Engineering Tallahassee, Florida
Date Posted	Apr. 25, 2022
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Engineering - Other Polymer Science
Apply By Email	srama@eng.famu.fsu.edu

Job Description

As part of the NSF Center on additive manufacturing at FSU/FAMU we seek post-doctoral associates in the following areas (1) organic/polymer chemistry and engineering, (2) Additive manufacturing – 3D printing for different applications (flexible electronics, ceramics), (3) synthesis and processing of colloidal materials (graphene, MXene), and (4) Theoretical/simulations of fluid flow during printing, computational models that account for particle-particle interactions (dense systems) and predict phase behavior/gelation and macroscopic properties. The postdoctoral fellowship positions will be in the NSF funded CREST Center for Complex Materials Design. Current Center research aims at the synthesis, characterization, and processing of polymer-based architectures used in a variety of technologies and devices ranging from aerospace to energy to medical devices using additive manufacturing techniques. The Center collaborates with several national laboratory facilities such as Brookhaven National Laboratory (BNL), Air Force Research Laboratory (AFRL) and the National High magnetic Field Laboratory (NHMFL) and applicants should be willing to visit these research collaborators as part of their research.

Initial appointment is for one year and is renewable based on satisfactory performance. The position

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are through Florida A&M University-Florida State University (FAMU-FSU) Department of Chemical and Biomedical Engineering/Industrial and Manufacturing Engineering. Responsibilities will include initial material synthesis for additive manufacturing, creation/standardization of analysis processes/characterization for these novel materials, high impact journal publications and mentorship of graduate and undergraduate students. This work will be conducted mostly at the FAMU-FSU College of Engineering and satellite labs that include the NHMFL, but also in collaboration with Harvard University, MIT, ANL and AFRL. The center is also involved in using state of the art scattering techniques (Xray scattering) at BNL to understand structure-function relationships in these novel materials.

Skills and Requirements• Polymer synthesis and grafting of polymer chains to particle surfaces (for example, controlled polymerizations and/or “click” chemistry).• Purification and characterization of synthesized particles and polymers. • Characterization methods in colloidal science - Knowledge of scattering and rheological methods to characterize the resultant nanocomposites properties. • Device fabrication and characterization. • Theoretical/Computational studies of particle/polymer systems under flow using high performance computing resources. • Excellent written English and oral communication skills are required. • Ability to work independently and mentor graduate and undergraduate students.

Highly motivated applicants should contact Dr. S. Ramakrishnan by email with a CV and contact information of 3 references. Selected candidates will receive an expedited interview application for the final position. srama@eng.famu.fsu.edu

EEO/AA Policy

Equal Employment Opportunity An Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer. FSU's Equal Opportunity Statement can be viewed at: http://www.hr.fsu.edu/PDF/Publications/diversity/EEO_Statement.pdf

Contact Information

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

Contact Subramanian Ramakrishnan
Chemical & Biomedical
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