

Postdoctoral Research Associate Position

Advanced Materials and Advanced Manufacturing Laboratory (AMAML)

University of Georgia (UGA)

Supervisor: Dr. Kenan Song

Start Date: On or after July 1, 2026 (flexible)

Duration: 2 years (Fiscal Years 2027–2028)

Funding Source: Postdoctoral Fellowship

Position Overview

The **Advanced Materials and Advanced Manufacturing Laboratory (AMAML)** at the **University of Georgia (UGA)** invites applications for a **Postdoctoral Research Associate** position. This award supports the recruitment of **new postdoctoral talent to UGA** and provides **full salary, benefits, and professional development support for two years**. The postdoctoral scholar will conduct independent and collaborative research at the intersection of **advanced manufacturing, functional materials, polymers, and multiscale mechanics**, with opportunities to engage in **high-impact publications, proposal development, and interdisciplinary collaborations** across engineering, materials science, and applied physics.

Compensation and Benefits

- **Salary:** \$60,000 per year (fully funded for two years)
- **Fringe Benefits:** Up to \$29,700 per year
- **Total Annual Compensation:** Up to \$89,700 with extra travel support
- **Professional Development Support:**
 - \$4,000/year for conference travel and/or training (total \$8,000 over two years)
- **Salary Supplementation:** Permitted through non-Moore funding sources
- **All funds will be supported by:** June 30, 2028

Research Areas of Interest

The successful candidate will contribute to one or more of the following research thrusts:

- Advanced and convergent manufacturing (e.g., 3D printing, fiber spinning, coating technologies)
- Polymer science and engineering, better with biological or biomedical experience
- Functional composites and bio-derived materials
- Multiscale mechanics and process–structure–property relationships
- AI- and data-enabled manufacturing and materials design
- Sustainable and circular materials manufacturing

Required Qualifications

Applicants must hold a **Ph.D. (or be near completion)** in one of the following or closely related fields:

- Mechanical Engineering
- Manufacturing Engineering
- Materials Science and Engineering
- Chemical Engineering
- Polymer Science and Engineering

Candidates should demonstrate:

- Strong motivation and ability to work independently
 - Excellent written and oral communication skills
 - A collaborative, team-oriented mindset
 - A strong record (or clear potential) for peer-reviewed publications
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Desired Technical Expertise

Hands-on experience in several of the following areas is highly desirable:

Manufacturing & Experimental Skills

- Mechanical design and fabrication of experimental setups
- Manufacturing across nano–micro–macro length scales
- Additive manufacturing, coating, spinning, or extrusion processes

Materials Characterization

- Mechanical, thermal, electrical, optical, and surface characterization
- Experience with tools such as:
 - DMA, DSC, TGA
 - SEM, TEM, AFM
 - Rheometer, tribo-indenter, profilometer
 - FTIR, Raman, UV–Vis
 - WAXD, SAXS, SANS
 - Goniometer, tensiometer

Modeling and Simulation (Optional and Preferred)

- Finite Element Analysis (ANSYS, ABAQUS, COMSOL)
 - Molecular Dynamics (MATLAB, LAMMPS)
 - Multiphysics or multiscale modeling
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Professional Development Opportunities

The postdoctoral scholar will have opportunities to:

- Publish in high-impact journals
 - Lead or co-lead research proposals
 - Mentor graduate and undergraduate students
 - Participate in interdisciplinary initiatives at UGA
 - Build an independent research profile for academic or industry careers
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Eligibility Note (Foundation Requirement)

This position is **exclusively for individuals new to the University of Georgia**. Applicants **must not have been affiliated with UGA prior to July 1, 2026**.

Application Instructions

Interested candidates should email the following materials as a single PDF to **Dr. Kenan Song**:

1. Curriculum Vitae
2. Brief statement of research interests and relevant experience
3. Names and contact information of 2–3 references

Contact:

Prof. Kenan Song, University of Georgia

Email: Kenan.Song@uga.edu