

Research Engineer/Postdoc Fellow Positions at Northwestern University, U.S.A.

Are you a highly motivated and dedicated engineer/researcher eager to drive scientific advancements at the intersection of Mechanical Engineering and Materials Science? Are you ready to collaborate on interdisciplinary projects for rapid co-design and testing of gradient material and geometry, and for physics-based data-driven design and control of hybrid processes? If so, we invite you to apply for the positions of Research Engineer/Postdoc Fellow at Northwestern University.

About Us:

Northwestern is at the forefront of innovation in the fields of Mechanical Engineering and Materials Science. NIMSI, a research center on manufacturing science and innovation led by [Jian Cao](#) and [Ping Guo](#), hosts the National Science Foundation Engineering Research Center HAMMER and multiple exciting projects related to additive manufacturing funded by Department of Defense. As a Research Engineer, you will play a pivotal role in this transformative research initiative, working with leading experts and talented graduate students and undergraduate students.

Responsibilities:

As a Research Engineer, you will:

- **Design customized and innovative research instruments for various projects, particularly related to high-pressure and high-temperature material testing, metal 3D printing, etc.**
- Collaborate closely with senior researchers, external collaborators, fellow postdocs, graduate students and undergraduate students from diverse disciplines.
- Present your findings at project review meetings, top-tier conferences and seminars.
- Prepare project reports and help coordinate projects.
- Publish high-impact research papers in prestigious journals.
- Contribute to grant writing and proposal development.
- Mentor and guide graduate students and undergraduate students in their research pursuits.

Qualifications:

We are seeking candidates who meet the following qualifications:

- **A demonstrated track records of hands-on experience in instrumentation, mechanical design, material testing, etc.**
- **A bachelor degree in Mechanical Engineering, Materials Science and Engineering, or a closely related field from a respected institution. (A Master or PhD degree in the related field will be a plus.)**
- Strong interpersonal, communication, and presentation skills.
- An enthusiastic and creative approach to interdisciplinary collaboration and the ability to excel in a team-oriented environment.
- Preferred research specialties:

Application Deadline:

Positions are open immediately and will remain open until filled. Please submit your application, including a cover letter, CV, and contact information for three professional references, as soon as possible.

How to Apply:

To apply for this exciting opportunity, please submit your application to jcao@northwestern.edu and ping.guo@northwestern.edu.

Contacts:

Jian Cao, jcao@northwestern.edu

Ping Guo, ping.guo@northwestern.edu