

## Opportunity for Multiple Fully Funded PhD Positions for Spring 2025 at Washington State University

The [Computational Intelligence for Materials and Process Innovation \(CIMPI\) Lab](#) (PI: Satyajit Mojumder, Assistant Professor, [Google Scholar](#)) at the [School of Mechanical and Materials Engineering](#) at Washington State University ([WSU](#)) invites applications for fully funded PhD positions. Our lab focuses on developing intelligent computational tools to explore the intersection of mechanics, materials, and manufacturing processes. We aim to address large-scale, multiphysics challenges in advanced manufacturing and materials systems using mechanistic reduced-order models and AI-based algorithms.

### What we offer:

- Training in advanced materials manufacturing, mechanistic machine learning & data science.
- Highly collaborative projects in a variety of research applications.
- *A small research group*: you will work closely with the PI to become well-trained in conducting, communicating, mentoring, and evaluating research to prepare you for your future career.
- Competitive salary, health insurance, professional development opportunities.

### We're Seeking Candidates Who Have:

- Demonstrable proficiency in programming (Python/Julia/C++) and computational modeling.
- Experience with 3D printing, sensor technology, data acquisition, and instrumentation.
- A background in artificial intelligence, and scientific machine learning.
- A commitment to ethical research, personal integrity, and professional honesty.
- Strong learning aptitude and high information literacy skills.

### Qualifications:

- A bachelor's and/or master's degree in mechanical engineering, Computer Science, Materials Science, or related discipline.
- Demonstrated scholastic ability, preferably with previous research experience.

**Application Process:** To apply, please send an email to Dr. Mojumder ([Satyajit.mojumder@wsu.edu](mailto:Satyajit.mojumder@wsu.edu)) including your CV, a concise statement of research interest (maximum 1 page), and, if applicable, a summary of past research experiences, highlighting individual intellectual contributions (maximum ½ page). Applications will be evaluated as they are received, and well-qualified candidates will be contacted for an interview.

**Why WSU?** WSU is a "[Very High Research Activity](#)" (annual research expenditures of \$368M in 2022) public, land grant institution in the state of Washington with 31,159 students across six campuses throughout the state. The CIMPI lab will be on the main campus of [Pullman](#), a small city with a modest [cost of living](#) about 150 miles from the Pacific Northwest National Laboratory ([PNNL](#)), providing the opportunity for internships and research collaboration.

**Why the MME?** The WSU MME is an ABET accredited program offering two [doctoral degree programs](#): Mechanical Engineering and Materials Science & Engineering. The MME is highly research active, with more than \$10M in research expenditures in 2023. The School of MME prides itself in being an engineering practice-oriented integrated community of both mechanical and materials engineering, with multiple campuses across the state, close to key industry partners in nuclear, aerospace, and naval engineering. Our students are world-class, with many winning nationally and internationally competitive awards as individuals or teams.