



## Two Ph.D. Positions in the School of Mechanical and Materials Engineering at Washington State University in the area of Bionic Electronic Devices

Dr. Qiu's group in the School of Mechanical and Materials Engineering (MME) at Washington State University (WSU) has a fully funded Ph.D. position in Bionic Electronic Devices. Research in the group focuses on 3D printing, flexible and bionic electronics, wearable biosensors, artificial organs, biomimetic surfaces and devices, and related design, manufacturing, biomedical and biomimetic applications. Selected candidates are expected to start in the Spring/Summer/Fall of 2024. Visiting students/scholars are also welcome.

### Qualification

Students with MS/ME or BS/BE in Mechanical Engineering, Electrical Engineering, Materials Science, Biomedical Engineering, Chemical Engineering, and closely related fields, are encouraged to apply. Self-motivated candidates with a strong foundation are particularly welcome. The ability to work collaboratively and interdisciplinary with strong written and communication skills is highly desired. Research and publication experience in electronics, signal processing, and coding are preferred.

### How to Apply

Interested candidates are encouraged to contact Dr. Qiu ([kaiyan.qiu@wsu.edu](mailto:kaiyan.qiu@wsu.edu)) directly with anticipated start date and your detailed CV, including GPA, GRE score, TOFEL score (if applicable), the contact information of three references, and a full list of publication (if applicable). Review of applications will start immediately and continue until the positions are filled.

### About Dr. Qiu

Dr. Qiu is currently a tenure-track Berry Family Assistant Professor of Mechanical Engineering in MME at WSU. Dr. Qiu received his Ph.D. in Fiber Science with Polymers and Biological Engineering Concentrations from Cornell University. He also obtained the postdoc training in Mechanical Engineering at Dartmouth College, Princeton University, and University of Minnesota. With his expertise in 3D printing, functional materials, electronics, and biotechnologies, Dr. Qiu's research interests focus on designing and manufacturing artificial organs for surgical rehearsal and device evaluations, flexible electronics and biosensors for motion monitoring and disease detection, and soft robots and biomimetic devices for enhanced locomotion performance. Dr. Qiu's highly interdisciplinary research work has been published in numerous high-impact journals, including *Science Advances*, *Advanced Materials*, *Advanced Functional Materials*, *Circulation Research*, *Advanced Materials Technologies*, etc. More information about his research can be found in <https://www.kaiyanqiu.com/>.

### About WSU & MME

Washington State University (WSU), located in Pullman, WA, is one of the nation's top 35 public research universities in both Mechanical Engineering and Materials Engineering. Founded in 1890, WSU is one of the oldest land-grant universities in the American West. WSU was ranked 66 among all US institutions for total R&D expenditure in 2017. It is also among highly selective universities in US recognized with the "very high research activity" (R1) categorization. WSU has 11 colleges and 6 campus, including newly established College of Medicine. Close collaborations exist with the nearby Pacific Northwest National Laboratory (PNNL) and the University of Idaho. The School of Mechanical and Materials Engineering (MME) currently has about 45 instructional faculty members, 1000 undergraduate students, over 130 PhD students and 60 MS students. The current annual extramural research expenditure in MME is close to 10 million.