

FALL 2019

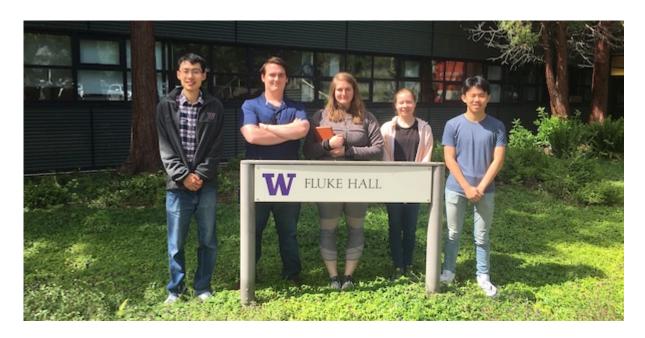
INSTITUTE NEWS



Functional materials expert joins NanoES

We are excited to welcome Mohammad Malakooti to UW as an assistant professor in mechanical engineering. Malakooti is developing new methodologies to synthesize and ultimately manufacture stable, mechanically robust, and functional nanomaterials that can be integrated into durable macrostructures in ways that harness their unique nanoscale properties. His research has the potential to impact printed electronic skin, multifunctional composites, integrated nanoscale devices, stretchable tactile sensors, among other emerging areas. Learn more about his research.



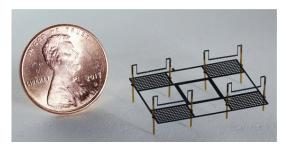


Encouraging the next generation of quantum pioneers

The UW initiative QuantumX awarded five undergraduate and master's students grants to fabricate nanoscale quantum devices at the Washington Nanofabrication Facility.

IN THE NEWS

WIRED



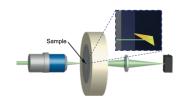
An Itty-Bitty Robot That Lifts Off Like a Sci-Fi Spaceship

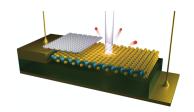
WIRED magazine featured research from mechanical engineering professors Sawyer Fuller and Igor Novosselov in which they power tiny robots by accelerating ions instead of burning fuel or spinning rotors.



Defects Wanted; Apply Here: Q&A with UW Physicist

Kai-Mei Fu, professor of electrical & computer engineering and physics, recently sat down with *APS Physics* to discuss how properties of atomic defects in materials may enable quantum technologies for secure communication.





Can lasers really cool semiconductors?

New analysis from
Materials Science &
Engineering
Professor Peter
Pauzauskie and
colleagues calls into
question a landmark
2013 study that
claimed to
demonstrate that a
semiconductor could
be cooled using light.

Nature

First-ever visualizations of electrical gating effects on electronic structure

Physicists David
Cobden and
Xiaodong Xu
developed a new
technique to
measure the energy
and momentum of
electrons in
microelectronic
devices made of 2D
materials.

Nature

Scientists can now control thermal profiles at the nanoscale

A team led by
Professor of
Chemistry David
Masiello designed
and tested an
experimental system
that uses a nearinfrared laser to
actively heat
two nanoscale metal
rods to different
temperatures.

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