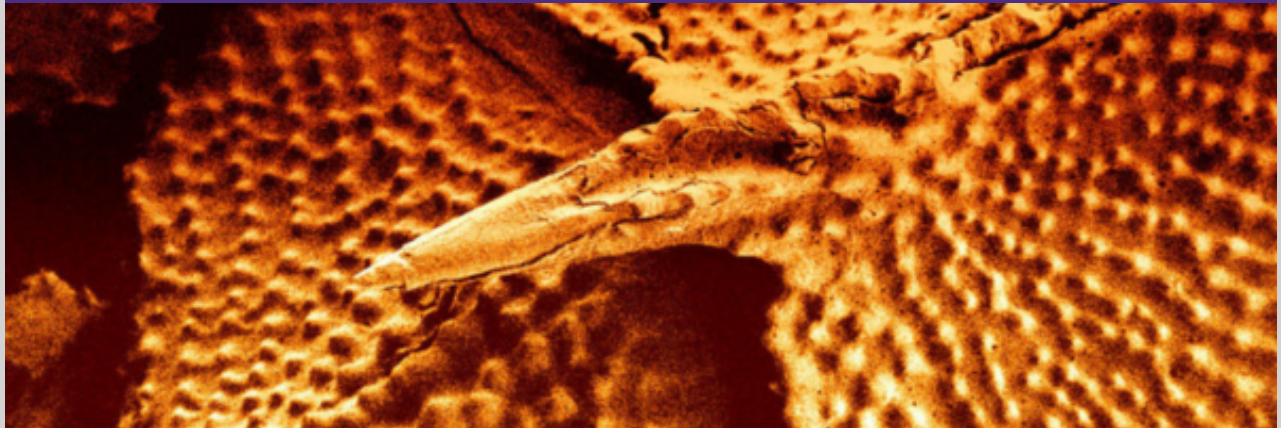




## News



### [\*\*Ankush Nandi wins honorable mention in NNCI “Plenty of Beauty at the Bottom,” 2024 image contest\*\*](#)

Ankush Nandi, a mechanical engineering Ph.D. student in the Vashisth Research Lab, was recognized for his photo, “Shai-Hulud and the Ripples in Sand,” which he took with an Apreo1 SEM by ThermoFisher Scientific.

[\*\*WNF director in group to target billions in CHIPS and Science Act funding for Washington state\*\*](#)

The state-wide group of leaders from universities, research institutions, technology companies and the government aim to strengthen the state's semiconductor industry.



### [WNF student lands dream internship at NVIDIA](#)

Prithvi Krishnaswamy's work in the Washington Nanofabrication Facility as a lab assistant helped him land a summer internship at NVIDIA.



## Research Highlights

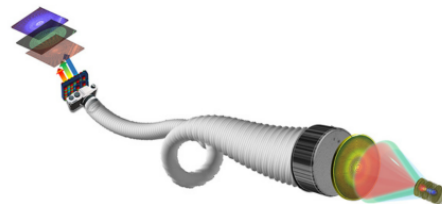
### [Serena Eley — studying superconductivity, magnetism, and disorder in quantum materials](#)

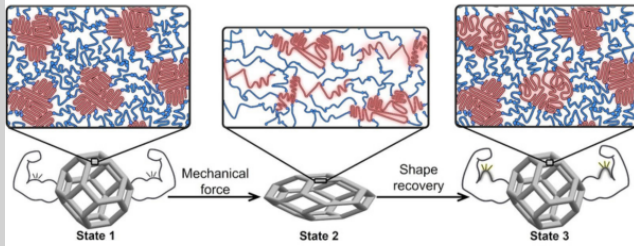
UW ECE professor and NanoES member Serena Eley examines superconductors and magnets, searching for ways to fine-tune the atomic disorder landscape in them and leverage their unique properties for quantum technology development.



### [New lens system for endoscopes could allow physicians to see inside the body like never before](#)

A team of researchers led by NanoES member Arka Majumdar designed a new kind of lens system for the tip of an endoscope, which could enable physicians to view and treat areas deep inside the body.



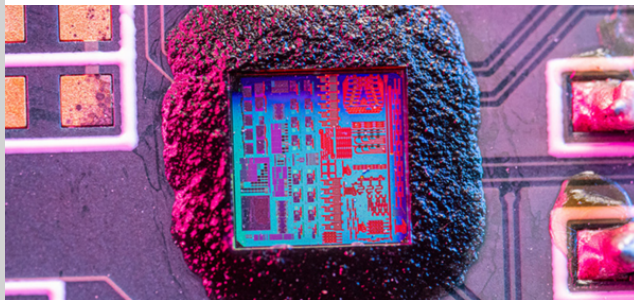


### [Revolutionizing sustainable materials: strain learning metamaterials inspired by nature](#)

UW researchers have developed a new “strain learning” metamaterial that unexpectedly became stronger and stiffer after testing, instead of degrading over time.

### [UW researchers develop wearable device that lights up an LED using the warmth of your skin](#)

Mohammad Malakooti's team developed a flexible, durable electronic that can harvest energy from body heat and turn it into electricity that can be used to power small electronics.



### [A new, 3D-imaging system for early detection of lung cancer](#)

The imaging provides unprecedented access to small bronchial tubes inside the lungs and gathers high-resolution, 3D images that convey functional and structural information about tumors inside the lungs and whether they are benign or malignant.

Apply!

### **Accepting applications for 2025-26 NNI seed grants**

To support the use of nanotechnology tools to develop innovative, new technologies, the Northwest Nanotechnology Infrastructure (NNI) is offering [grants for work](#) to be conducted in our fabrication or characterization facilities. These grants are designed to help users

build and characterize prototypes, obtain preliminary results and conduct proof of concept studies.

**[Applications](#) for 2025 are due April 1.** Winners will be announced at the May 8 NanoES Symposium.

## Publications

[Democratizing Access to Microfluidics: Rapid Prototyping of Open Microchannels with Low-Cost LCD 3D Printers](#)

*ACS Publications*

[Experimental Investigation of Active Flow Control of a Clark Y Airfoil Using Plasma Actuators](#)

*Aerospace Research Center*

[Expanding the capillarics toolbox: 3D-printed microfluidic phaseguides and self-coalescence modules](#)

*BioRxiv.org*

[Rapid enzymatic assay for antiretroviral drug monitoring using CRISPR-Cas12a enabled readout](#)

*BioRxiv.org*

[Autonomous Phase Mapping of Gold Nanoparticles Synthesis with Differentiable Models of Spectral Shape](#)

*ChemRxiv.org*

[Fabrication of Low-Cost, High-Resolution Open Capillary Microfluidics towards Self-Sustaining, Long-Term Hydration of Engineered Living Materials](#)

*ChemRxiv.org*

[Principles for demonstrating condensed phase optical refrigeration](#)

*Nature Review Physics*

[Probing Rotational Decoherence with a Trapped-Ion Planar Rotor](#)

*Physical Review Journal*

[Biomimetic mineralization of positively charged silica nanoparticles templated by thermoresponsive protein micelles: applications to electrostatic assembly of hierarchical and composite superstructures](#)

*Royal Society of Chemistry*

[Selective dissolution and re-precipitation by pH cycling enables recovery of manganese from surface nodules](#)

*Royal Society of Chemistry*

[Reverse transcriptase ACTivity \(REACT\) assay for point-of-care measurement of established and emerging antiretrovirals for HIV treatment and prevention](#)

*Springer Nature*

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