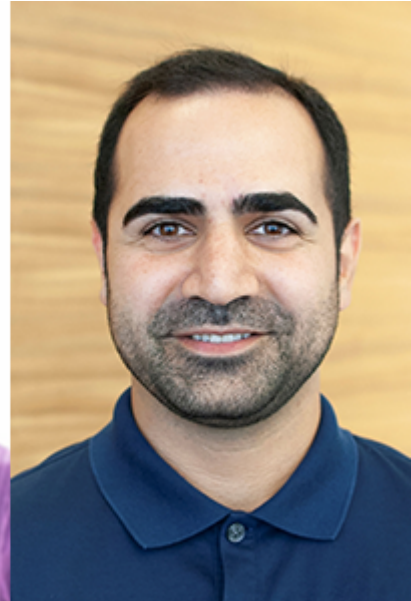




INSTITUTE FOR NANO-ENGINEERED SYSTEMS

FALL 2023

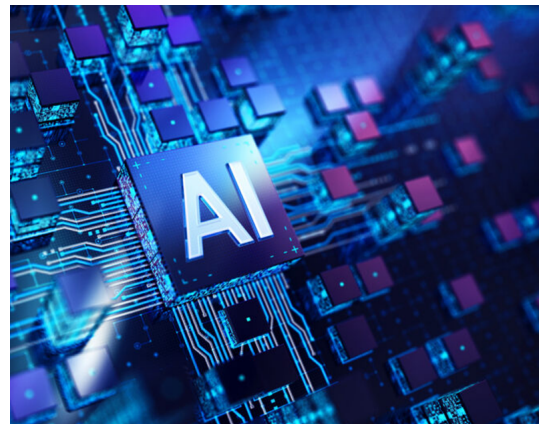


NanoES announces 2023 Northwest Nanotechnology Seed Grant awardees



Empowering STEM students with nanotechnology insights

Mechanical Engineering Professor Lucas Meza is helping community college students explore nanotechnology and



\$15.3M awarded to California-PNW AI hardware hub

UW's WNF is part of the California-Pacific-Northwest AI Hardware Microelectronics Commons Hub (Northwest AI Hub), one of

research in his seminar on Nano-Engineering of Materials and Structures.



Batteries and Baklava

UW graduate students studying nanotechnology spent their summer participating in an NSF-sponsored program at Aristotle University in Thessaloniki, Greece, focusing on battery development and optimization.

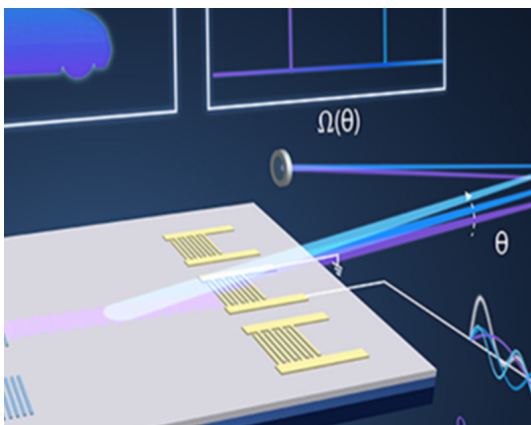
eight Microelectronics Commons regional innovation hubs awarded by the U.S. Department of Defense (DOD).



Updates on the WNF

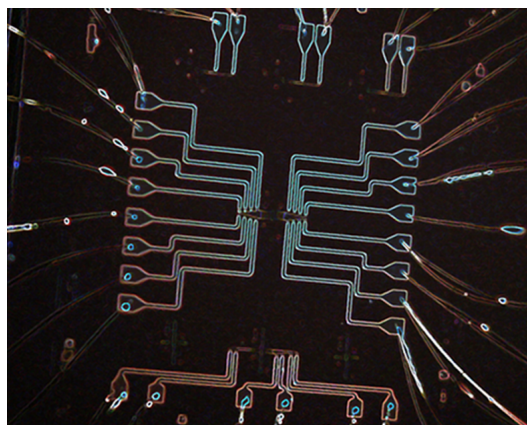
Read about the biannual Northwest Nanotechnology Laboratory Alliance hosted at the WNF and the latest grants from Intel and Micron that support short courses for Pathways for Inclusive Excellence students.

RESEARCH HIGHLIGHTS



New eyes for self-driving car

ECE Professor Mo Li invented a new type of Light Detection and Ranging (LiDAR) system that could help self-driving cars “see” distant objects with clarity and precision. At the core of their innovation is a laser beam-steering device that is

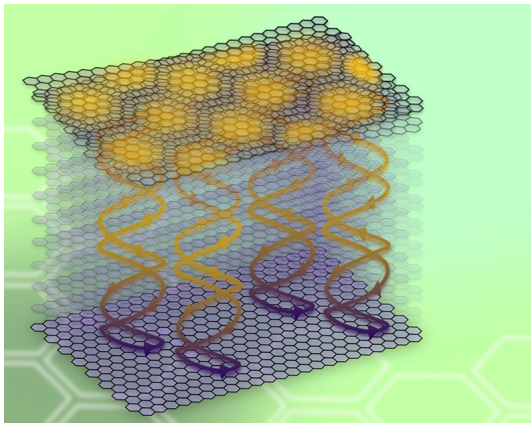


A new chip for quantum technology.

ECE and Physics professor Arka Majumdar has successfully demonstrated that a new kind of silicon photonic chip could work as a solid foundation for building a quantum simulator. It could

roughly 1,000 times smaller than its counterparts currently in the marketplace.

theoretically help scientists simulate a specific, complex molecular interaction for closer study, deepening scientific understanding and speeding up drug development.



[Researchers put a new twist on graphite](#)

Matthew Yankowitz, a UW assistant professor of physics and of materials science and engineering, has found that it is possible to imbue graphite — the bulk, 3D material found in No. 2 pencils — with physical properties similar to graphite's 2D counterpart, graphene.



[Reimagining optics for smartphone cameras and other devices](#)

Arka Majumdar and ECE postdoc scholar Johannes Fröch are part of a research team making cameras smaller and lighter for mobile platforms such as smartphones, drones and point-of-care medical devices.

CONGRATULATIONS!

[Arka Majumdar named 2024 Optica Fellow](#)

RECENT PUBLICATIONS

[Realizing tight-binding Hamiltonians using site-controlled coupled cavity arrays](#)

Nature Communications

[Observation of fractionally quantized anomalous Hall effect](#)

Nature

[Non-volatile phase-only transmissive spatial light modulators](#)
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