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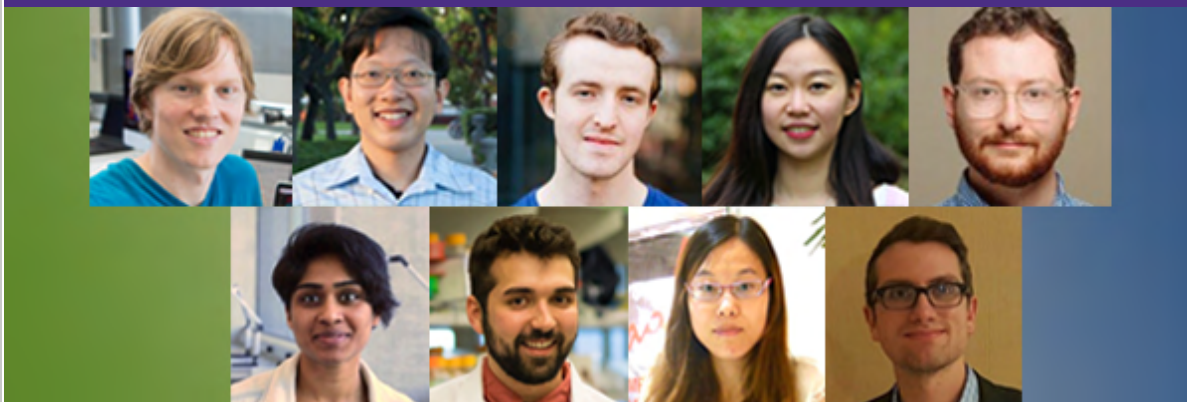
UNIVERSITY *of* WASHINGTON



MOLECULAR ENGINEERING & SCIENCES INSTITUTE

JULY 2021

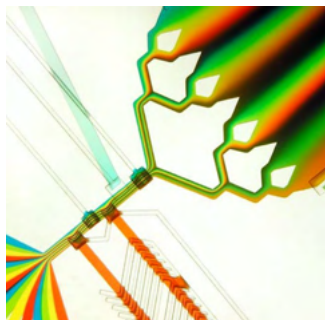
INSTITUTE NEWS



[Molecular engineering graduates tackle global grand challenges](#)

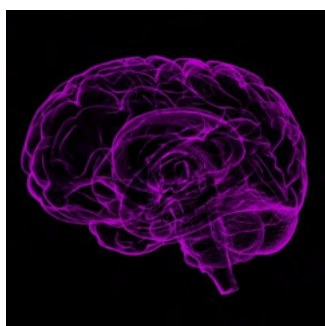
From COVID-19 to neurodegenerative diseases, our students are applying molecular engineering principles to enable a healthier and more sustainable world.

RESEARCH HIGHLIGHTS



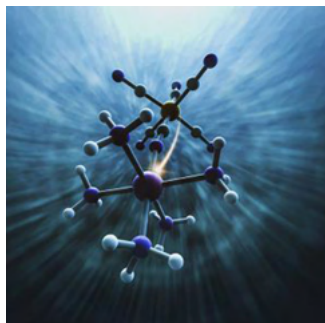
[Microfluidics: The tiny, beautiful tech hidden all around you](#)

Microfluidics will play a critical role in ushering medicine into a new, fast-paced, and affordable era writes bioengineering professor Albert Folch.



[Alzheimer's research gets a boost](#)

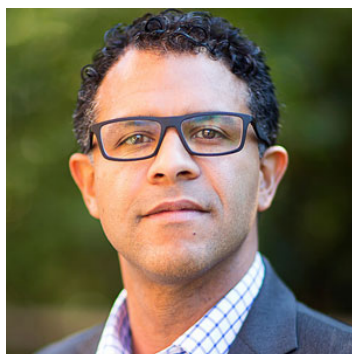
Bioengineering startup AltPep advances technology for the early detection and treatment of Alzheimer's and other amyloid diseases.



[Role of solvent molecules in light driven electron transfer revealed](#)

New findings from the lab of chemistry professor Munira Khalil could help researchers learn how to control energy flow in molecules, potentially leading to more efficient clean energy sources.

CONGRATULATIONS



[James Carothers wins](#)



[MoES faculty](#)



[Samson Jenekhe wins](#)

[ARPA-E award for transformational energy technology](#)

The \$1.7 million in funding will be used to develop a cost-effective and sustainable process to convert CO2 into industrial chemicals.

[members elected to Washington State Academy of Sciences](#)

Chemistry Professors Alshakim Nelson and Munira Khalil will help bring the best available science to bear on issues within Washington state.

[2021 Polymer Physics Prize](#)

Jenekhe, the Boeing-Martin Professor of Chemical Engineering, was recognized for his work on semiconducting polymers for electronic and photovoltaic applications.

RECENT PUBLICATIONS

[Portable bacterial CRISPR transcriptional activation enables metabolic engineering in *Pseudomonas putida*](#)

[Single-cell CUT&Tag analysis of chromatin modifications in differentiation and tumor progression](#)

[Modular Zwitterion-Functionalized Poly\(isopropyl methacrylate\) Polymers for Hosting Luminescent Lead Halide Perovskite Nanocrystals](#)

[Nanoparticle-Mediated Assembly of Peptoid Nanosheets Functionalized with Solid-Binding Proteins: Designing Heterostructures for Hierarchy](#)

[Protein sequence design by explicit conformational landscape optimization](#)

[Nonlinear photocarrier dynamics and the role of shallow traps in mixed-halide mixed-cation hybrid perovskites](#)

[Designed proteins assemble antibodies into modular nanocages](#)

[Liver-targeted polymeric prodrugs of 8-aminoquinolines for malaria radical cure](#)



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