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.
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

MolES 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.

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**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