

# Alan J. Russell, Highmark Distinguished Career Professor

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Professor Alan Russell's research group combines chemistry, biology and materials science to address real world problems. The laboratory has pioneered the field of polymer-based protein engineering. Growing polymers from the surface of enzymes, the group has rationally tailored the properties of the protein and enabled ruggedized enzymes to be applied in health-related and defense-related arenas. Special interest has been focused on harnessing the power of biology in enzymatic fuel cells and biocatalytic therapeutics. Professor Russell's group has published over 200 papers and has performed the underlying work that generated two successful biotechnology companies. Professor Russell was the Founding Director of the McGowan Institute of Regenerative Medicine in Pittsburgh and the Founding President of the Tissue Engineering and Regenerative Medicine International Society.

