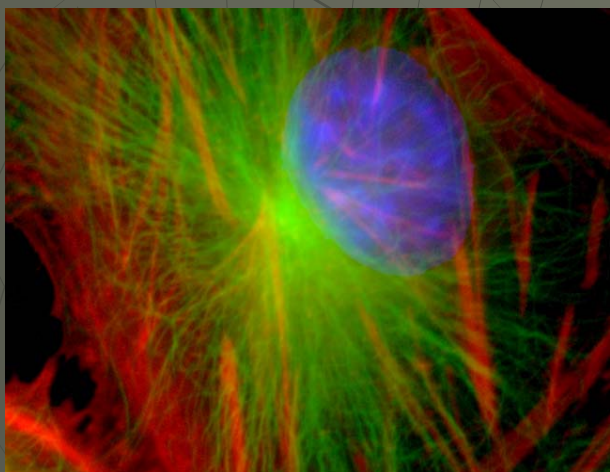


Biomolecular Engineering

...where Chemical Engineering meets Biology!



A network of biopolymers in a biological cell as seen through a microscope

with the Bioprocessing Technology Institute (which evolved out of the Bioprocessing Technology Center within the Department) through our Joint Research and Educational Laboratory with BTI are merely two of the many examples. In addition, the Department, jointly with the NUS Office of Life Sciences and the Department of Chemistry, has also launched an undergraduate Chemical Sciences Program to educate engineers and scientists to meet the emerging challenges at the interface of chemical engineering, biology and chemistry.

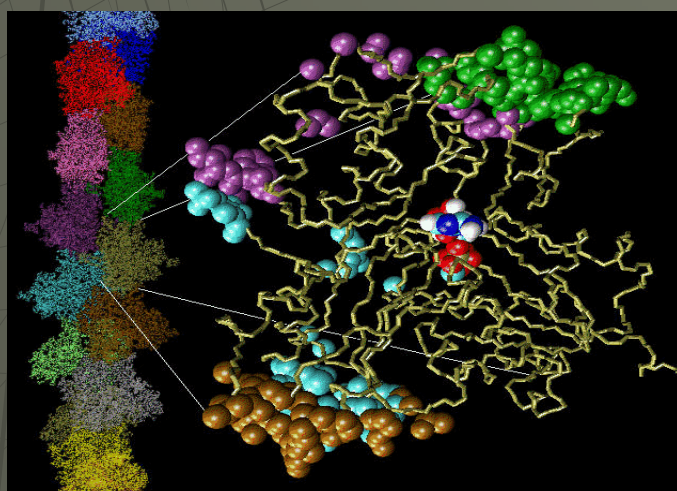
Our current activities in biomolecular engineering include, but are not limited to, design and development of drug delivery vehicles, functionalization of biomolecular materials for biosensors, molecular level control of biomolecules for fabricating biomolecular micro/nano devices, modification of proteins to target them to desired materials and biomolecular design for environmental remediation.

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Biomolecular Engineering – “research at the interface of chemical engineering and biology with an emphasis on the molecular scale”.

-- *US National Institutes of Health*

The Department of Chemical and Biomolecular Engineering at the National University of Singapore has a long-standing commitment to research and education in areas that cut across the confines of conventional disciplines. Our successful Biopharmaceutical Engineering program and research and educational activities



A computer rendition of F-actin (fibrous actin, a polymer) and a single actin molecule found in biological cells. F-actin plays a central role in determining the shapes and functioning of cells.