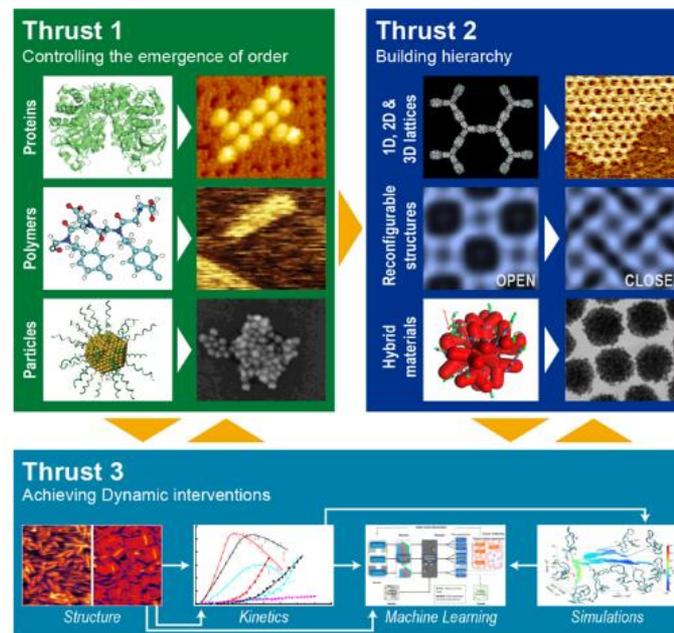


# Center for the Science of Synthesis Across Scales (CSSAS)

François Baneyx (University of Washington); Class: 2018-2022

**MISSION:** To harness the complex functionality of hierarchical materials by mastering the design of high-information-content building blocks that predictively self-assemble into responsive, reconfigurable, self-healing materials, and direct the formation and organization of inorganic components.



<https://www.cssas-efrc.com>

## RESEARCH PLAN

CSSAS will predict how the chemistry and sequence of inorganic, polymer and protein building blocks gives rise to ordered templates; master free energy landscapes to control the assembly of these templates into hierarchical and hybrid materials; and access new states of matter through the integration of data science, *in situ* characterization, and simulations.



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