

EXECUTIVE SUMMARY [NON-CONFIDENTIAL, NON-TECHNICAL ABSTRACT FOR PUBLIC INFORMATION OR PROGRAM PROMOTION]: State in layman's terms the application's broad, long-term objectives and specific aims, making reference to the potential public benefits of the project relevant to California. Do not include proprietary or confidential information. This may be distributed before the funding decision has been finalized.

The long-term aim of this proposal is to find new applications for biomolecules, especially proteins, in the fields of material science and nanotechnology. Proteins may facilitate the development of new and intricate structures or patterns in silica-based materials under relatively mild environmental conditions. This project lies at the interface of chemistry, biology, and materials engineering.