PROJECT TITLE: Enabling Continuous Glucose Meters for Monitoring Chronic Diseases Beyond Diabetes

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Project Description

Chronic disease management is healthcare’s biggest challenge. Patients with chronic diseases and their doctors deserve the same breakthrough in care that diabetics obtain from continuous glucose monitors (CGMs). We are developing CGM+, which for the first time will enable real-time diagnostics for chronic disease indicators beyond glucose.

Specifically, in this project students will work with Ph.D. students and Prof. Heikenfeld in developing sensors for cardiac patient applications, and for a wider-variety of applications where acute and chronic inflammation are an issue. The work involves wet-chemistry, where gold electrodes are coated with a specialized layer of DNA molecules that capture and allow an electronic measure of concentrations of biomarkers in the body.

Students will be trained in everything they may need for the project and receive personalized mentorship matching their long-term professional goals.