

## Project Summary

Optigon is a spinout company from one of MIT's largest solar research groups, the TATA-MIT GridEdge Solar Research Program. Our team is focused on developing an automated, bench-top metrology tool for accelerating the stability of emerging photovoltaics (PVs). Our solution **utilizes multi-modal characterization techniques** to identify correlations between **rapidly measured material properties as PV devices degrade under accelerated stress tests** compatible with the International Electrotechnical Commission (IEC) standards. This approach will target the development of stability forecasting models that can predict PV lifetimes over the course of hours, rather than the standard month-long tests. As a result, we will **shorten the feedback cycle** and enable accelerated insights for emerging PV's like perovskites, where stability improvements are critical to bankability and market adoption.

