COLUMBIA | ENGINEERING
The Fu Foundation School of Engineering and Applied Science

COLUMBIA | NANO INITIATIVE

COLUMBIA | Lab-to-Market Accelerator Network

COLUMBIA | MRSEC

COLUMBIA GSAS

Data Science Institute
COLUMBIA UNIVERSITY

COLUMBIA LAB-TO-MARKET

ADVANCED MATERIALS ACCELERATOR

WITH CORNING INCORPORATED

TEAM ONE:

CERAMIC TAPES AS A SUBSTRATE FOR ADVANCED THIN FILM ELECTRONICS

Our team plans to use Corning's advanced ceramic tape substrates to demonstrate and develop extremely high performance in flexible thin film devices including RF filters, microLED displays, and high power TFTs.

TEAM MEMBERS: Ioannis Kymissis, Zachary Lamport, and Christine McGinn

TEAM TWO:

ADVANCED MANUFACTURABLE MATERIALS FOR FAST MICROFLUIDIC PCR

Our team plans to develop and integrate advanced manufacturable materials for microfluidic PCR.

TEAM MEMBERS: Sam Sia, Anne-Catrin Uhlemann, and Harshit Harpaldas

TEAM THREE:

RESONANT, WAVEFRONT-SHAPING METASURFACES

Our team plans to create a wavelength-selective metasurface that molds the optical wavefront at selected colors but stays transparent over the rest of the spectrum for applications in augmented reality and transparent displays.

TEAM MEMBERS: Nanfang Yu, Stephanie Malek, and Adam Overvig