

Project Call 2.2: FHE Prototyping and Production Equipment

Partners: Sensor Films Inc., Boeing, General Electric, Jabil, NovaCentrix, PARC, Universal Instruments, Binghamton University, Rochester Institute of Technology

Abstract: The **FHE Prototyping and Production Equipment** project will deliver a pilot-scale integrated digital FHE printer platform at a scale to have an immediate impact on FHE manufacturing. It will be the first production scale platform to provide drop-on-demand deposition of functional electronic materials on cut-sheet substrates with seamless integration of surface mounted silicon components. This versatile, digital system will have in-process monitoring and inspection capabilities. The project enables rapid prototyping and economic on-demand production of flexible hybrid electronic devices for NextFlex members. It will be an entry-level device to explore FHE parameters with results that are scalable to high volume production. The proposal will develop the necessary process specifications and process technology and address the real-life needs of end-user proposal partners, Boeing, General Electric and Jabil by fabricating relevant process demonstrators based on partner input.



Sensor Films

 **Starlight**
DIGITAL MANUFACTURING PLATFORM

Sensor Films