



Strengthening
University-Industry
Partnerships

The Texas Institute for Electronics

S. V. Sreenivasan, UT Austin

Ben Rathsack, TEL

Ted Moise, UT Dallas

Jeffrey LaRoche, Raytheon

Kelly Folts, NXP Semiconductors

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Now that the CHIPS Act has passed, what are the two biggest challenges that could still impede the US from securing the semiconductor supply chain and achieving long-term technology leadership?

Unable to compete with other regions of the world that are technologically advanced in manufacturing

Loss of interest from federal/state govt in maintaining support for semiconductors beyond the first 5 years

Difficulty in achieving a critical mass of US based skilled workforce that is needed for a vibrant semiconductor manufacturing ecosystem

Some parts of semiconductor supply chain (i.e. assembly and test) will continue to remain offshore because of low-cost competition

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What factors are most important to ensure long-term TIE success?

Establish clear membership models with varying levels of participation and commitment

Serve as a prototype and low-volume manufacturing facility

Provide support for workforce development

Ensure secure and sustainable funding

Develop state-of-the-art equipment, facilities, and technology roadmap (driven by industrial, DOD needs)

Encourage collaboration among academia, industry, and government – including other CHIPS centers

Foster lab-to-fab innovation

Ensure alignment of hub location with dominant local industry

Establish clear IP rules and guidelines

Allow members to install, test, or validate new equipment

Serve as a repository for information which is open and searchable for members

Develop low-cost and environmentally sustainable manufacturing

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