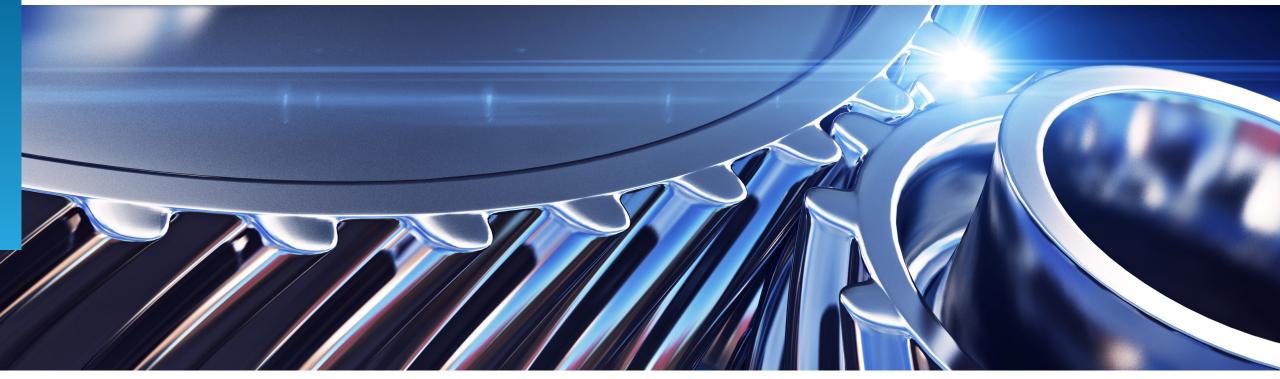


Semiconductor Engineering Services – Service Provider Compendium 2021

May 2021: Complimentary Abstract / Table of Contents



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Background and introduction of the research

Semiconductors form the basic components of all kinds of electronic devices and have a complex manufacturing process that requires sophisticated engineering across all stages of the value chain. The semiconductor industry is witnessing significant ER&D investments driven by factors such as increasing adoption of AI chips, proliferation of IoT and connected devices, and shift to 3 nanometer (3nm) technology. Semiconductor enterprises face challenges in catering to evolving customer demands as well as in managing the increased complexity in the value chain due to design changes and complex validation procedures.

Service providers in the semiconductor engineering space are helping enterprises such as fabless companies, IDMs, and foundries across requirements for product development, fabrication, testing, and life cycle management. Semiconductor engineering service offerings span four service functions that broadly capture the semiconductor industry value chain:

- Design & verification
- Validation & testing
- Sustenance & value engineering
- Other services related to manufacturing

This research is the first edition of Everest Group's Semiconductor Engineering Services PEAK Matrix[®] Assessment, wherein we have presented an assessment of 16 engineering service providers featured on the PEAK Matrix[®], along with sourcing considerations for enterprises. This assessment is based on RFI responses from service providers, interactions with their semiconductor engineering leadership, client reference checks, and an ongoing analysis of the engineering services market.

This report includes detailed profiles of the following 16 leading engineering service providers featured on the semiconductor engineering PEAK Matrix®:

- Leaders: Capgemini, HCL Technologies, LTTS, TCS, and Wipro
- Major Contenders: Alten, Cyient, Harman, Quest Global, Synapse Design, Tata Elxsi, Tech Mahindra, and UST Global
- Aspirants: Invecas, Mirafra Technologies, and VVDN Technologies

Scope of this report:





Service providers 16 leading broad-based and pureplay engineering service providers



Semiconductor engineering services

The semiconductor engineering service provider compendium report has profiles and buyer case studies for 16 leading engineering service providers



Research calendar Engineering services

Published

Planned Current release

Flagship engineering services reports	Release date
Industry 4.0 Services PEAK Matrix [®] Assessment: the Transformational Leap in Cyber-physical Convergence	September 2020
Reaching New Frontiers in Experience-centricity and Resilience: Software Product Engineering Services PEAK Matrix® Assessment 2021	March 2021
Semiconductor Engineering Services PEAK Matrix [®] Assessment 2021: Enabling the Hyper-connected Intelligent World	March 2021
A Transformational Leap in Cyber-physical Convergence – Industry 4.0 State of the Market Report 2021	April 2021
Reaching New Frontiers in Experience-centricity and Resilience: Software Product Engineering Service Provider Compendium 2021	May 2021
Semiconductor Engineering Services – Service Provider Compendium 2021	May 2021
Automotive Engineering Services PEAK Matrix® Assessment	Q2 2021
5G Engineering Services PEAK Matrix [®] Assessment 2021	Q3 2021
Thematic engineering services reports	Release date
Engineering Services Skills Handbook: Preparing for Next Wave of Growth in Global ER&D	July 2020
Leading the Pack: Trends for the Top 200 Engineering Research & Development (ER&D) Enterprises 2020	January 2021
ER&D in 2021	February 2021
Digital Twins and their Adoption Across Industries	February 2021
The Role of Global Business Service (GBS) Organizations in the Automotive Industry: What Lies Ahead?	March 2021
Engineering Services Enterprise Pulse: Are Engineering Enterprises Truly Happy with Their Service Providers?	April 2021
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