

TSMC Technical & Career Talk

James Wu *

Deputy Fab Director, Taiwan Semiconductor Manufacturing Company Limited

* Email address: JMWU@tsmc.com

Being the most successful company in the IC industry, Taiwan Semiconductor Manufacturing Company (TSMC) created the semiconductor Dedicated IC Foundry business model since it was founded in 1987. In 2022, TSMC served 532 customers and manufactured 12,698 products for various applications covering a variety of IC markets including high performance computing, smartphones, the Internet of Things (IoT), automotive, and digital consumer electronics. TSMC has the broadest range of technologies and services in the Dedicated IC Foundry segment of the semiconductor manufacturing industry. The IC Industry Foundation strategy embodies an integrated approach that bundles process technology options and services. TSMC's vision is to be the most advanced and largest technology and foundry services provider to fabless companies and Integrated Device Manufacturers (IDM), and in partnership with them, to forge a powerful competitive force in the semiconductor industry. To realize such vision, TSMC has a trinity of strengths: Be a technology leader, Be the manufacturing leader, and Be the most reputable, service-oriented and maximum-total-benefits silicon foundry.

In this talk I will introduce TSMC's business landscape and growth trend, with an overview of fab operation and technology portfolio that covers many end markets which brings positive influence to our daily life. Also I will briefly introduce the talent requirement as TSMC is going Global to increase its influence of semiconductor industry.