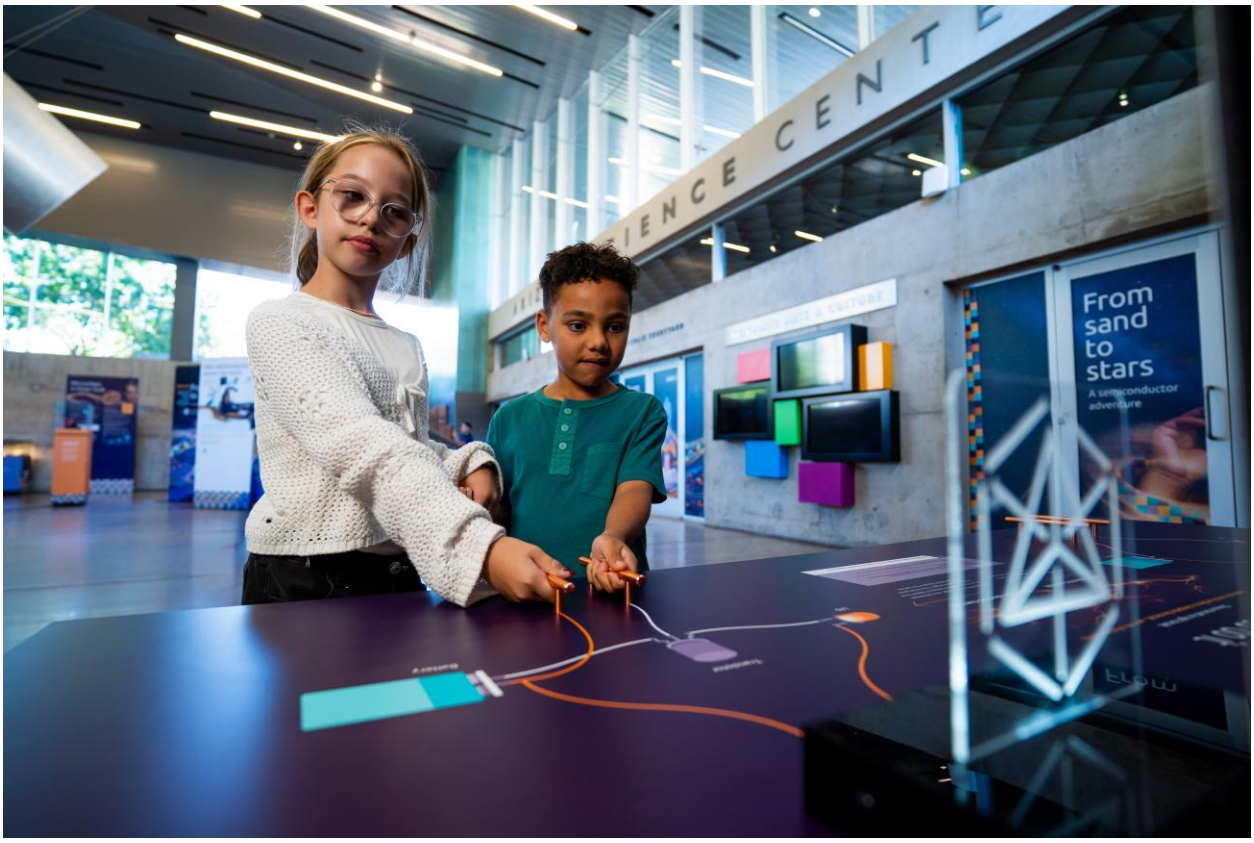
ASM's "From Sand to Stars" Exhibition Sparks Semiconductor Curiosity

Global semiconductor equipment supplier with a half-century in Arizona, debuted semiconductor science exhibition and funds 50 school field trips

- Exhibition is inspiring the next generation of semiconductor innovators
- Over 7,300 visitors, including 5,700 students from sponsored field trips, so far
- On display at Arizona Science Center now through December 24, 2025

PHOENIX (November 25, 2025)— Semiconductor chips power everything, from Nintendo Switch games and TikTok videos to Mars rovers and virtual reality headsets, yet few understand how they work. That's why ASM, a leading semiconductor equipment and process technology company, launched its "From Sand to Stars: A Semiconductor Adventure" exhibition at Arizona Science Center, which transforms the mysterious world of microchips into a playground of discovery for young minds.



The exhibition has already captivated over 7,300 visitors since its opening in late September. This includes about 5,700 students from low-income Phoenix schools who attended through ASM-sponsored field trips.

The Arizona Science Center exhibition turns complex semiconductor concepts into hands-on adventures. Students complete electrical circuits with their own bodies, light up a periodic table featuring semiconductor superstars like silicon and hafnium oxide, and marvel at a nearly 8-foot-tall photo wall of ASM's massive XP8 Synergis technology found in the world's leading chip fabs.

"For nearly 50 years, ASM has led semiconductor innovation right here in Arizona to support our worldwide customers, and now we're inspiring the next generation of talent to shape the future of our industry," said Vamsi Paruchuri, Corporate VP, Technology, Innovation & Market Research at ASM. "Seeing students engage with our technology is especially meaningful as we invest in our new Scottsdale R&D center. The same kids lighting up circuits today could be designing our next breakthrough materials and equipment in a decade."

The exhibition's launch coincided with SEMICON West, North America's largest semiconductor conference, which was held in Phoenix for the first time in the show's 50-year history. Arizona now leads the nation in semiconductor investments, with the Semiconductor Industry Alliance projecting nearly 115,000 new jobs by 2030, with an estimated 58% at risk of going unfilled without initiatives like this exhibition inspiring the next generation.

"Since opening in September, the From Sand to Stars: A Semiconductor Adventure exhibition has not only introduced countless guests to the wonder of semiconductor science—it has inspired them to imagine themselves as the next engineers, innovators, and problem-solvers," said Tammy Stewart, Interim Hazel A. Hare President & CEO, Arizona Science. "We're incredibly proud to see how this journey is sparking both understanding and possibility."

"My students were so excited about the ASM Semiconductor exhibition," said an Arizona teacher whose students visited the exhibition. "The experience helped them understand how much science and technology go into creating something so small but so important. It definitely opened their eyes to how the semiconductor industry works and even got some of them thinking about pursuing careers in this field."

Families can still experience "From Sand to Stars" through December 24, 2025, at Arizona Science Center, located at 600 E. Washington St. in downtown Phoenix. The exhibition is displayed in the Center's lobby and is included with general admission. For more information, visit azscience.org/fromsandtostars.

About ASM:
ASM has been making the equipment that makes the chips inside the world's favorite devices for more than half a century. We enable the next generation of microchips by empowering leading semiconductor manufacturers with advanced wafer processing equipment. Through our mastery of thin-film deposition, we create the innovative tools and solutions that shape the materials at the heart of tomorrow's technology – powering everything from AI and next-generation healthcare to cloud computing and smarter, more energy-efficient devices.

With over 4,500 employees in 15 key locations across three continents, we specialize in technologies that serve our customers' needs, including Atomic Layer Deposition (ALD), Plasma-Enhanced Atomic Layer Deposition (PEALD), epitaxy, silicon carbide epitaxy, Plasma-Enhanced Chemical Vapor Deposition (PECVD), and Vertical Furnaces.

At ASM, we care about the world we live in. Every day, we work to improve people's lives around the globe by enabling technology that bridges gaps, creates connections, and unlocks potential.

About Arizona Science Center:
Located in downtown Phoenix, Arizona Science Center features more than 300 hands-on exhibits, a five-story giant-screen theater, live demonstrations, traveling exhibitions, and exciting science programs. The Center offers programs for all ages, including Science on Wheels, CAMP INNOVATION, Teen programs, Professional Development, and Adults' Night Out: Science with a Twist. Whether onsite or at your location–get ready to embark on a hands-on STEM learning journey you'll never forget. To learn more or to reserve tickets, visit azscience.org or call 602.716.2000. Follow us on Instagram, X, Facebook, LinkedIn, and YouTube.