

AI and Semiconductors Summer Institute

A Summer Institute for High School Educators

This 5-day, in-person summer school is designed for high school educators interested in learning and teaching how semi-conductor manufacturing plays a pivotal role in the current AI-boom.

Led by ASU faculty and industry professionals, participants will explore the AI ecosystem through interactive discussions, hands-on coding, hardware deployment, and immersive experiences that connect theory to real-world applications.

What Educators Will Experience

Day 1: AI Economy – Economic models of AI businesses.

Day 2: AI Foundations – Build and Train ML models

Day 3: AI Hardware – Deploy AI models on microcomputers

Day 4: Chip Fabrication – Making the AI chips

Day 5: Advanced Packaging – Putting together the AI processor

Hands-On & Takeaways

- Case studies on AI business models.
- Understand and train a simple practical AI model.
- Deploy the AI model on edge hardware
- Experience semiconductor fabrication at a real silicon fabrication plant

Who Should Attend?

This program is ideal for high school educators who:

- Teach STEM, computer science, engineering, or technology-related courses
- Are interested in AI, machine learning, or emerging technologies
- Want hands-on experiences they can translate into classroom learning

Meet The Director



Aviral Shrivastava
Professor, School of
Computing and
Augmented Intelligence