



Semiconductor
Research
Corporation

2024 Semiconductor Research Corporation Proposer Day for Minority Serving Institutes

Welcome / SRC Overview



Dr. Todd Younkin

SRC, President and CEO

todd.younkin@src.org

SRC - "It's simple..."

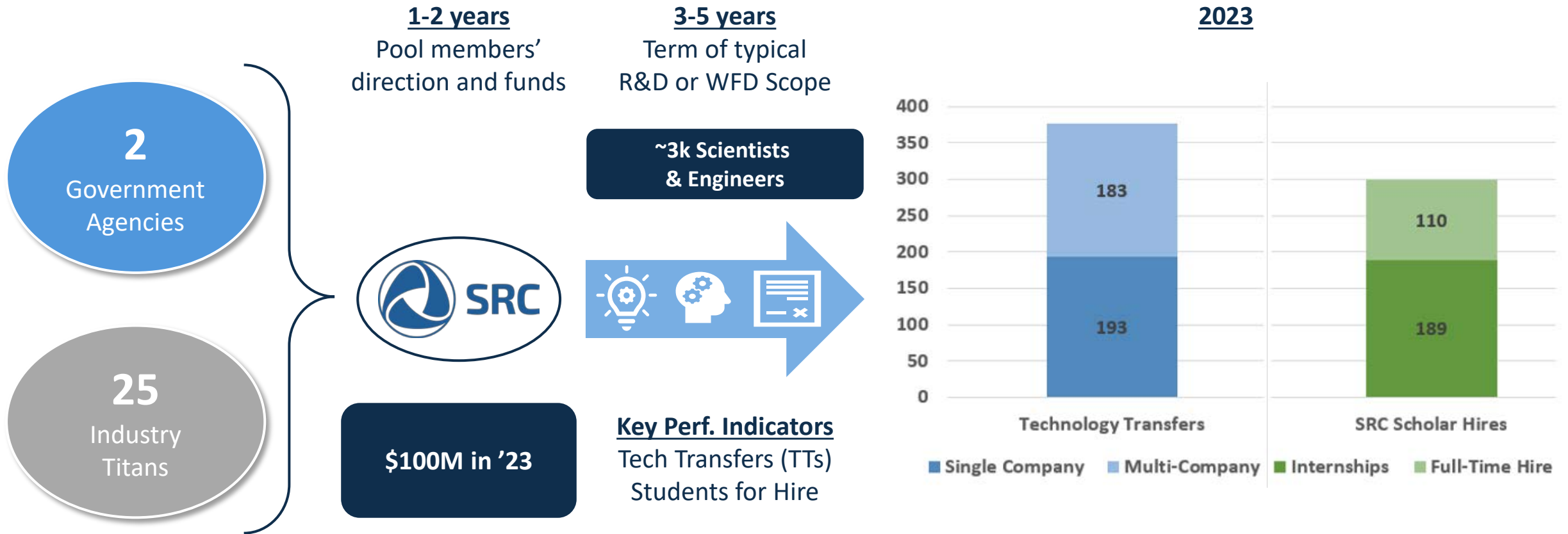
42 Years
Neutral, Trusted, Science-Driven
>\$2.5B in Academic Investments
>15,000 SRC Scholar Alumni



"We need to channel more funds to research and add to the supply and quality of degreed professional people."

-Robert Noyce

Collaborative R&D Generates Tech Transfers and Hires



In 2023, SRC recorded 376 Technology Transfers and 299 Hires into Member Companies



SRC's Values and Plan for the Decade

Prosperity



Decadal Plan for Semiconductors
NIST Roadmap for Microelectronics
and Advanced Packaging (MAPT)

3x↑ in Annual Funding

www.src.org/about/nist-mapt-roadmap/

The People

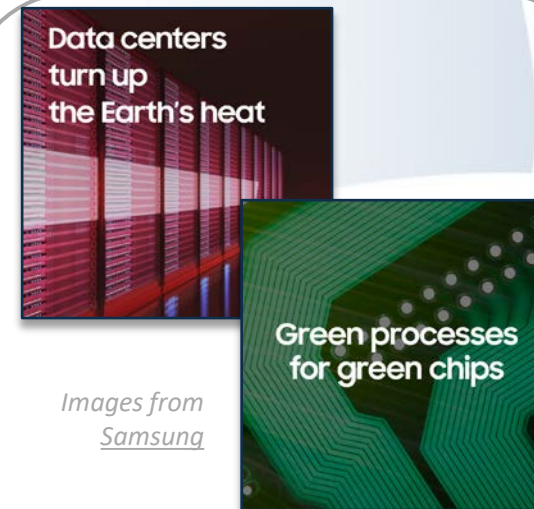


Broadening Participation Pledge
Workforce Advisory Board (WAB)
Greater DEI & U.S. Citizens

3x↑ Scholars (AA-PostDoc)

www.src.org/about/broadening-participation/

The Planet



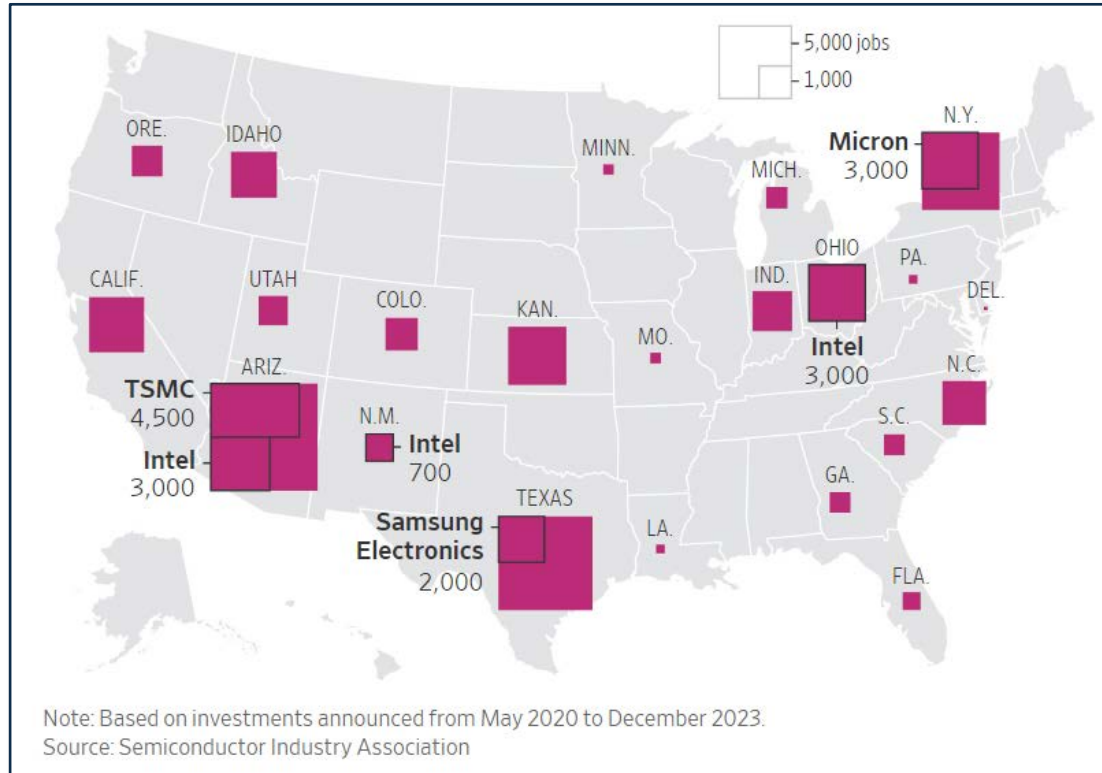
*Images from
Samsung*

Commitment to Sustainability
Energy Efficient ICT Systems
Green Materials & Processes
**Solutions that Win Hearts &
Minds of Next Gen Innovators**

<https://www.src.org/about/sustainability/>

Since Spring '22, we've used these 3 P's to direct \$350M+ in R&D & WFD investments and our effort

Jobs :: Where and How Many are Projected?



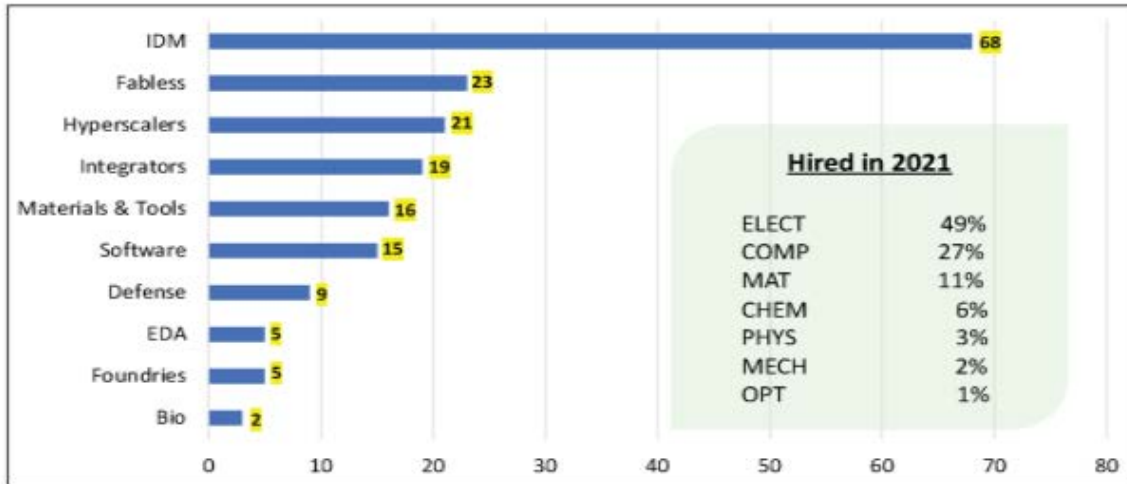
Secretary of
Commerce
Gina M. Raimondo

- Sec. Raimondo has set the goal of:
- “**Doubling** the U.S. semiconductor workforce over the next decade” and has
 - “**Urged U.S. colleges and universities to triple their graduates in semiconductor-related fields**”

Nice summary of jobs projection in WSJ Article - Jan. 27, 2024¹

Workforce Development – SRC’s WFD Blog & MAPT Ch. 11

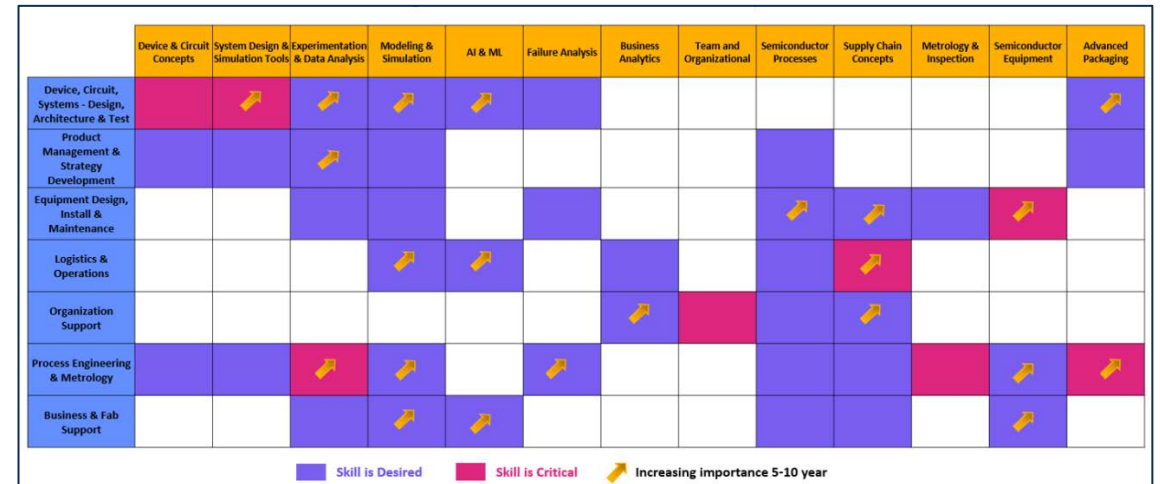
What is a Semiconductor Degree?



SRC Workforce Development Blog

See <https://www.src.org/newsroom/article/2023/1039/>

What Knowledge-Skills-Abilities (KSAs) are Required?



MAPT Workforce Development

See <https://srcmapt.org/chapter11/> and [supplementary information](#)

Need a ~3x↑ commitment to ECE and ~6x↑ Materials (MatSci, Chem) & Mech Eng.



SRC's 2024 Project Solicitations ~ \$13M



Apply!

- 3 yr. project, starting 1-Jan-2025
 - Released Q2'2024, <https://www.src.org/compete/> – **Open Water***
 - 2-stage process :: Open call (below) then invited full proposal submission
1. **NMP** – Nanomanufacturing Materials and Processes – **April 9th**
 2. **PKG** – Packaging – **April 9th**

 3. **HWS** – Hardware Security – **May 7th**
 4. **CADT** – Computer Aided Design and Test – **May 7th**
 5. **ESH** – Environment, Safety, and Health – **May 7th**



*Account creation required

Thank you!

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