

Advancing Canada's Role in the Global Semiconductor Industry

**INDUSTRY
PARTNERSHIPS**

Toronto Nanofabrication Centre



Today's pressing global challenges in environmental **sustainability, healthcare, and transportation** demand innovative solutions that leverage customized advances in technology. Nano- and micro-fabrication technologies are key to many of these solutions. The Toronto Nanofabrication Centre (TNFC) is Canada's premier hub for semiconductor research and education.



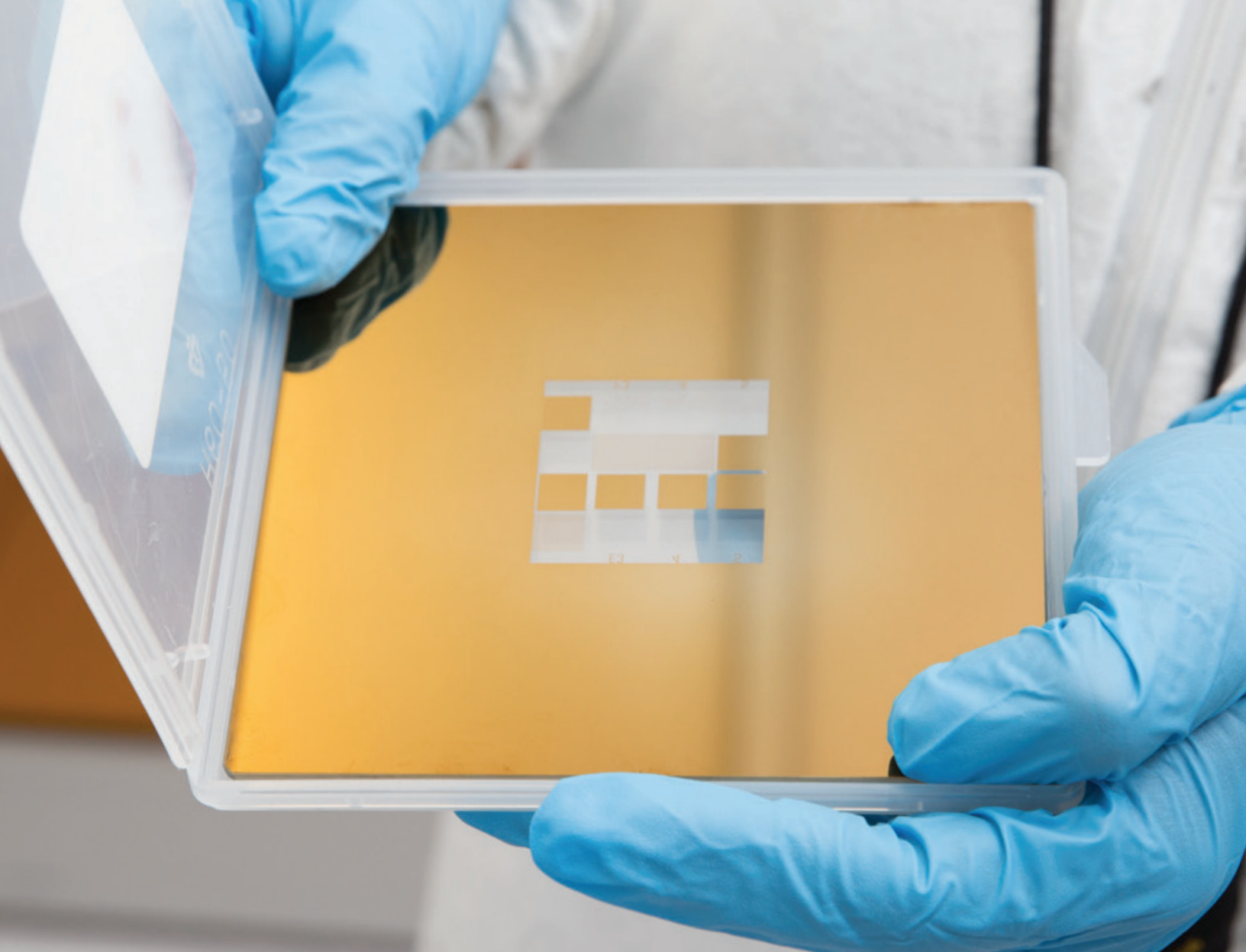


A Critical Time for Investment

Global competitors, like the U.S. with its CHIPS Act, are rapidly investing in semiconductor infrastructure. For Canada to remain competitive, we must act now. Public funding alone isn't enough; private corporate support is essential to maintain facilities like the TNFC that:

- **Drive Canada's leadership in a fast-evolving global industry.** The TNFC enables tailored nano-fabrication processes critical for developing next-generation devices, fostering advancements across industries. A robust research foundation is key to attracting international companies and startups, positioning Toronto and Canada as prime destinations for investment.
- **Train and retain top-tier talent in Canada.** The TNFC is training the next generation of engineers and researchers to support Canadian semiconductor infrastructure.
- **Support startups and entrepreneurship.** The TNFC provides facilities and expertise for startups to build and test new products before going to market.





Addressing Critical Global Challenges Together

The TNFC fosters advancements across industries:



Electric Vehicles

Develop efficient power electronics to enhance performance and range.



Clean Energy

Create sensors for environmental monitoring to combat climate change.



Medicine

Innovate miniaturized devices for early disease detection, personalized healthcare and drug delivery.



Accelerated Computing

Advance silicon interposers, photonic and quantum devices for cutting-edge computational needs.



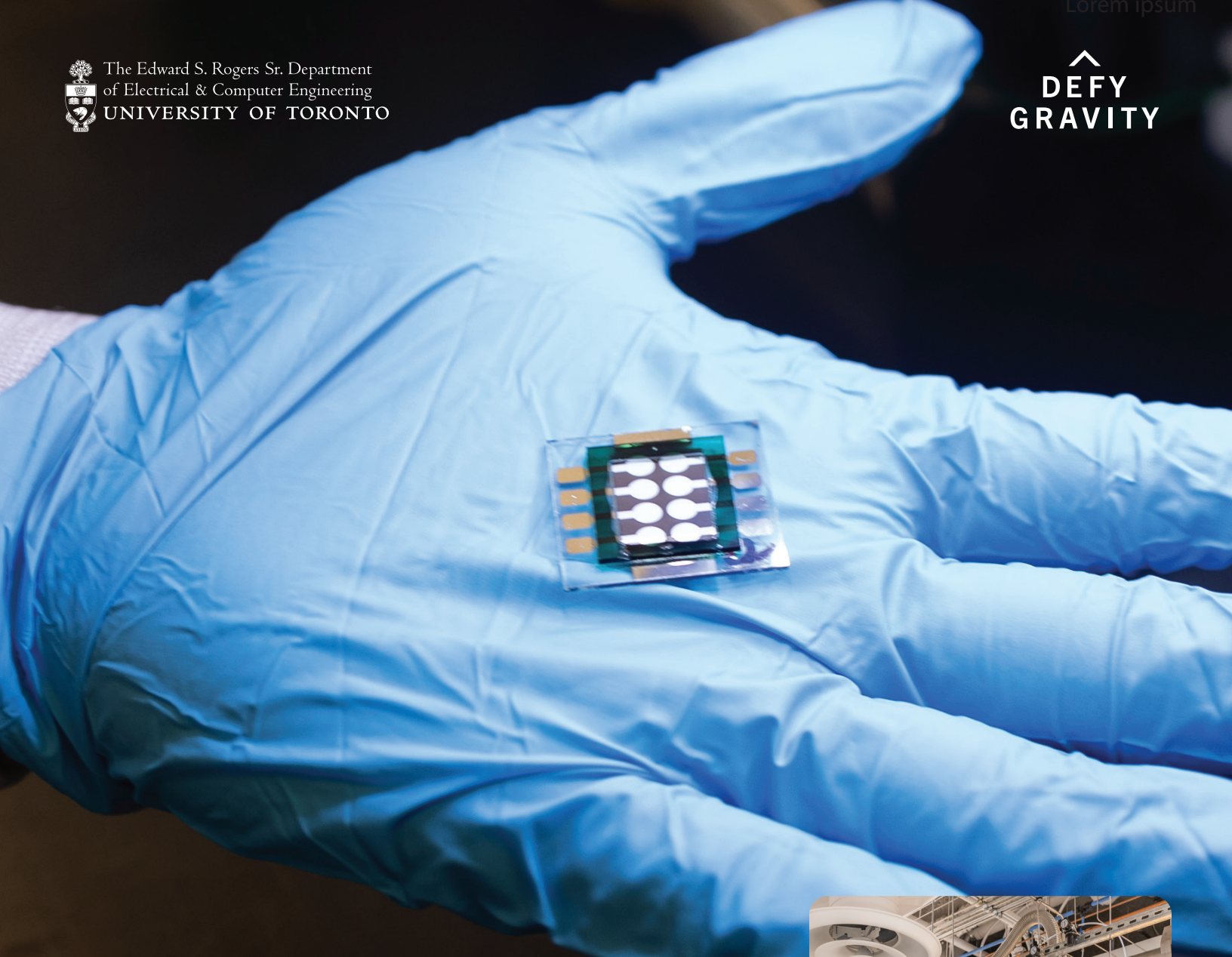
Unlocking Innovation Through Partnerships

Partnering with TNFC provides access to:

- Nano- and micro-fabrication technologies tailored for next-generation semiconductor devices.
- Collaborative research networks span academia, hospitals, research institutions, and the startup ecosystem. Downtown Toronto offers unparalleled access to partner institutions like MaRS Discovery District and the University Health Network.
- Enhanced research and development capabilities and the ability to collaborate on developing robust, field-ready prototypes.
- Advanced training programs for students and professionals in the semiconductor industry. Train and recruit from a pool of highly skilled engineers and researchers.



Learn more about the TNFC:
tnfc.utoronto.ca



Support Canada's Premier Nanofabrication Hub

Your partnership with TNFC helps solidify Canada's position as a global leader in the semiconductor industry. Together, we can tackle pressing challenges, drive economic growth, and foster innovation.



Learn more about how you can work
with our research facilities or faculty:
ece.utoronto.ca/industry-opportunities

