

OREGON SEMICONDUCTOR COALITION: HB 4154: CREATING PATHWAYS TO EQUITABLE OPPORTUNITY FOR ALL OREGONIANS

There is an urgent need to invest in talent pathways to strengthen diversity and meet the workforce expansion resulting from the success created by the 2023 Legislature’s passage of SB4 and Oregon CHIPS Fund investments. Industry leaders have responded by committing to projects totaling roughly \$40 billion, creating 6,300 jobs in the industry and 1,000 new construction jobs. To deliver on Oregon’s commitment to provide a trained workforce, quick legislative action is required toward strategic investments that bolster statewide talent and research.

FORM STATEWIDE INDUSTRY CONSORTIUM

The semiconductor consortium, composed of representatives from the semiconductor industry, education institutions, workforce organizations, and community-based organizations, will create sustained partnership and collaboration around critical talent needs of industry to create employment opportunities, advance a more diverse workforce, and improve the productivity of the industry.

DEVELOP COMPREHENSIVE STATEWIDE STRATEGY

The Semiconductor consortium will work with the HECC to develop a comprehensive statewide strategy to guide investments and build semiconductor education pathways and research capabilities.

CREATE THE SEMICONDUCTOR TALENT SUSTAINING FUND

The Semiconductor Talent Fund will invest funds across the education continuum to provide strategic, targeted investments in education, training, and research.

\$30 MILLION FOR ALIGNED, STRATEGIC INVESTMENTS

Proposed investments to increase the state's capacity to meet the workforce and research needs of the industry: \$5M for STEM education and work-based learning, \$5M for community college workforce training, and \$5M for advanced degrees and research, and \$15M in one-time, direct allocations to community colleges and universities to kick-start strategic investments in infrastructure, faculty, and curriculum.

We support these investments for innovative pathways and research in Oregon's community colleges and universities



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The University of Oregon proposes to increase the number of graduates prepared for the semiconductor industry. Investments will expand and modernize specialized equipment for the University of Oregon's long-established (25 years) diverse portfolio of applied MS programs with strong, targeted Oregon industry pipelines with a growing need for qualified talent. Expanding the training capacity will double the number of semiconductor-bound master's graduates over the next two years to 100 graduates each year to meet the needs of Oregon's semiconductor industry. This one-time investment will create a sustainable increase in training capacity over many years.

\$3 MILLION INVESTMENTS REQUESTED FROM THE UNIVERSITY OF OREGON

- Relevant chip design and manufacturing equipment for student training at undergraduate and MS levels in applied internship tracks: semiconductor, optics, quantum technology, electrochemistry, and Materials Analysis and Characterization.
- Equipment investments will update facilities in the semiconductor laboratories to be accessed by MS and undergraduate students: new deposition equipment to be installed in the Knight Campus clean room facility for training in nanofabrication, upgraded metrology equipment to be installed in CAMCOR (XRD), and new equipment for multiple stations in a microwave electronics and design tools course.

