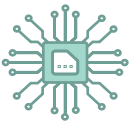


# COMPUTERS & ELECTRONICS

The computers and electronics industry – semiconductors in particular – is Greater Portland’s powerhouse sector. The concentration of computers & electronics companies, talent, and research expertise is unmatched elsewhere across the globe. This ecosystem produces components that provide crucial technology to the rest of the world.

## Our industry strengths



### SILICON FOREST

Nearly 80 years of investment in Greater Portland by Intel and Tektronix has cultivated a forest of thousands of technology firms and their suppliers. **Intel has invested more than \$49 billion since 1974** to support its global R&D headquarters in Hillsboro.



### RELIABLE, LOW-COST ENERGY

**Oregon and Washington rank 1st and 2nd in the nation**, respectively, in U.S. News & World Report’s energy rankings. The rankings are based on electricity cost, grid reliability and renewable energy usage.



### HIGHLY EDUCATED WORKFORCE

Greater Portland has the edge on semiconductor talent. More than 90% of the region’s workforce in this cluster is employed in sub-sectors that are at least 25% more competitive than the U.S. average. For example, **we have 13 times the average national concentration of semiconductor processing technicians**.

## REGIONAL INDUSTRY HIGHLIGHTS

41,400

Employees

359

Establishments

\$12.37B

Greater Portland’s international computers & electronics exports totaled \$12.37 billion in 2020.

15x talent

Greater Portland offers 15 times the national concentration of computers & electronics talent.

24% STEM

STEM occupations made up 24% of our region’s jobs in 2020.



## TOP PORTLAND METRO EMPLOYERS

Employees:



22,000\*



1,357



1,302\*



1,050



1,000

\*Denotes headquarters

# COMPUTER & ELECTRONICS ECOSYSTEM

## Industry Clusters

### DISCRETE DEVICE MANUFACTURERS

- Intel
- Jireh Semiconductor
- Lattice Semiconductor Corp.
- Micron Semiconductor Products
- ON Semiconductor
- Qorvo
- WaferTech

### CIRCUITS

- Sunstone Circuits
- TTM Technologies
- Z Technology, Inc.

### SEMICONDUCTOR SUPPLIERS

- AGC Electronics America
- Applied Materials
- ASM America
- ASML US Inc.
- BeSang
- Cabot Microelectronics
- Cascade Microtech
- CoorsTek

- Daifuku America
- Disco High Tech America
- EBARA Technologies, Inc.
- Edwards Vacuum
- FormFactor Inc.
- Hitachi High Technologies
- Horiba
- JSR Micro
- KLA Tencor
- Kokusai Semiconductor Equipment
- KoMiCo
- Lam Research Corp.
- Linde
- Mega Fluid Systems
- Microchip Technology
- Milwaukee Electronics
- Nikon Precision
- Quantum Clean
- Screen SPE
- Sumitomo Semiconductor Materials
- Thermo Fisher Scientific
- TOK America
- Tokai Carbon
- Tokyo Electron America, Inc.

### ELECTRONICS

- Analog Devices
- Electronic Controls Design
- FLIR Systems
- Foxconn Electronics
- JAE Oregon, Inc.
- Kyocera Tycom
- Leyard Optoelectronic
- Planar Systems
- Siemens EDA
- Silicon Forest Electronics Inc.
- Vanguard EMS

### COMPUTER PERIPHERALS

- APCON Inc.
- Hitachi Kokusai Electric America
- Pixelworks Inc.

### LASER TECHNOLOGY

- Applied Laser Technology Inc.
- Electro Scientific Industries (ESI)

## UNPARALLELED WORKFORCE TRAINING



The University of Oregon's **Center for Advanced Materials Characterization (CAMCOR)** serves industry with its multi-million-dollar cutting-edge nano-characterization and fabrication equipment, which allows students to perform research under electron microscopes and build semiconductor parts.

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