

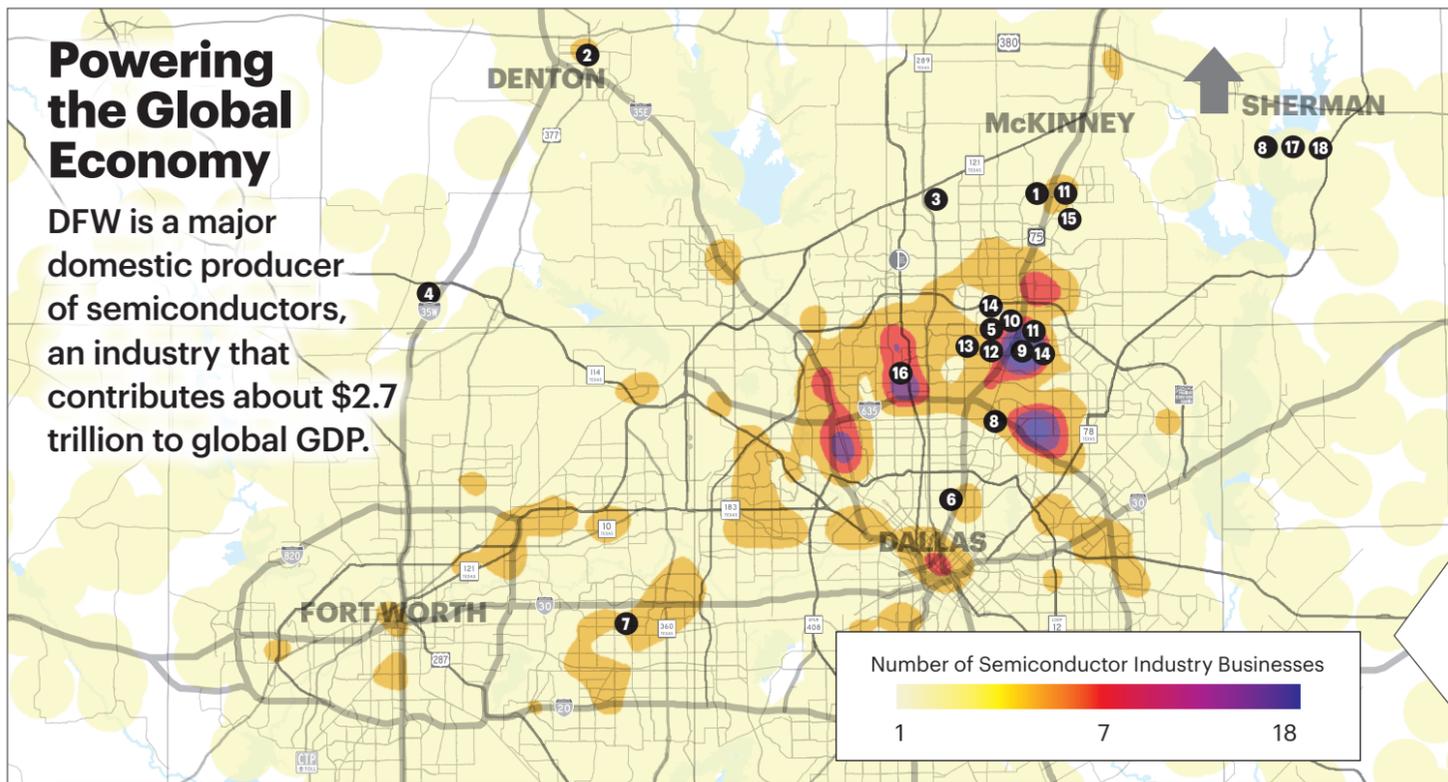
Semiconductors

As the birthplace of the integrated circuit, the Dallas-Fort Worth region is synonymous with semiconductors and electronic components. All digital technologies—from CPUs to LEDs and from smart phones to solar cells—are powered by the integrated circuit, or “chip.” The first chip was successfully demonstrated in 1958 by Jack Kilby, an engineer at Texas Instruments headquartered in Dallas.

Today, the region boasts a robust upstream supply chain (i.e. materials that facilitate the semiconductor production process); midstream production capability (i.e. component manufacturing, semiconductor assembly, and packaging); and downstream markets and applications (i.e. consumer and business products that utilize semiconductors and electronic device distribution).

Powering the Global Economy

DFW is a major domestic producer of semiconductors, an industry that contributes about \$2.7 trillion to global GDP.



The Texas Legislature and Governor’s Office have been particularly active in taking steps that will ensure the long-term success of regional semiconductor clusters in the state. Notable efforts include:

Texas CHIPS Act: Governor Abbott signed the Texas CHIPS Act (House Bill 5174) into law in June 2023. The Act is intended to leverage investments, encourage recruitment and expansion of companies, attract researchers and funding opportunities, and solidify Texas’ status as a leader in semiconductor manufacturing.

Texas Semiconductor Innovation Consortium (TSIC): The TSIC serves as an advisory panel to the Governor and the Texas Legislature and is charged with implementing a comprehensive statewide strategic plan to make Texas the global leader in semiconductor manufacturing.

Texas Semiconductor Innovation Fund (TSIF): TSIF may be used to match funding to state entities, such as institutions of higher education; for semiconductor research, design, and manufacturing projects; and for grants to business entities with an established presence in the state of Texas to encourage semiconductor-related economic development.

Texas CHIPS Office: The Texas CHIPS Office is a newly formed division of the Texas Economic Development & Tourism Office in the Office of the Governor. It was created to administer the TSIC and TSIF.

LEARN MORE



Most of the 8 billion people living today were born in the age of semiconductors. According to research cited by the North Texas Semiconductor Institute, approximately 1.2 trillion chips were sold in 2023, nearly 150 chips per person per year. There’s a good chance you’re interacting with devices powered by semiconductors every minute of your day.

Find out more about how the Dallas-Fort Worth region spurred a technological revolution and continues to drive innovation in the semiconductor industry today.

Sample of Semiconductor Companies in Dallas-Fort Worth

| Company | Specialty | Company | Specialty |
|------------------------------------|------------------|-----------------------|------------------|
| 1 Micron | Chip Design, R&D | 10 Mediatek | R&D |
| 2 University of North Texas | R&D | 11 Onsemi (2) | Chip Design, R&D |
| 3 Diodes Inc. | Chip Design, R&D | 12 Onto Innovations | Chip Design, R&D |
| 4 Winstron | Mfg. | 13 arm | R&D |
| 5 University of Texas at Dallas | R&D | 14 Qorvo/Skyworks (2) | Mfg. |
| 6 Southern Methodist University | R&D | 15 Littelfuse | Mfg., R&D |
| 7 University of Texas at Arlington | R&D | 16 Analog Devices | Chip Design, R&D |
| 8 Texas Instruments (2) | Mfg., R&D | 17 Global Wafers | Mfg. |
| 9 Nokia Optical | R&D | 18 Coherent | Mfg. |

| Industry | Establishments | Avg. Employment |
|---|----------------|-----------------|
| Semiconductor Machinery Manufacturing | 11 | 268 |
| Commercial and Service Industry Machinery Manufacturing | 59 | 1,144 |
| Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing | 44 | 2,408 |
| Bare Printed Circuit Board Manufacturing | 20 | 2,857 |
| Semiconductor and Related Device Manufacturing | 90 | 18,491 |
| Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing | 6 | 137 |

| Industry | Establishments | Avg. Employment |
|--|----------------|-----------------|
| Electronic Connector Manufacturing | 15 | 743 |
| Printed Circuit Assembly (Electronic Assembly) Manufacturing | 41 | 2,470 |
| Other Electronic Component Manufacturing | 45 | 1,891 |
| Other Electronic Parts and Equipment Merchant Wholesalers | 424 | 12,546 |
| Electronic and Precision Equipment Repair and Maintenance | 343 | 6,550 |
| Total | 1,098 | 49,505 |

Source: Lightcast, Bureau of Labor Statistics

Anchored by the Dallas-Fort Worth Metroplex, the Texoma region—an area comprising 29 counties from north central Texas and southeastern Oklahoma—is a Semiconductor Tech Hub.

The Tech Hubs Program was enacted as part of the CHIPS and Science Act of 2022. Each tech hub designee is responsible for supercharging its regional support system to become a global leader in a specific technology within a decade.

Texoma’s semiconductor stakeholders offer a consistent cadence of announcements signaling advances in chip design, material efficiency, and end-use functionality as well as innovative concepts that strengthen the semiconductor ecosystem.



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Includes key information on:

- EDUCATION AND RESEARCH
- WORKFORCE AND TRAINING
- JOBS AND WAGES
- LEGISLATION AND FUNDING

Legend:

Occupation
Jobs | Median hourly earnings



General and Operations Managers
140,857 | \$52.04



Software Developers
69,588 | \$63.35



Computer Hardware Engineers
1,358 | \$62.56



Electronics Engineers, Except Computer
4,451 | \$63.05



Industrial Engineers
10,458 | \$50.56



Materials Engineers
697 | \$60.94



Electrical Assemblers, Except Coil Winders, Tapers, and Finishers
6,476 | \$19.54



Miscellaneous Assemblers and Fabricators
33,328 | \$18.28



Semiconductor Processing Technicians
3,320 | \$18.06