## **Upstream Metals**

This cluster consists manufacturers of metal products such as pipes, metal closures, wires, springs, and related products, as well as iron and steel mills and foundries and related metal processors. The technical report, *Metropolitan Chicago's traded industry clusters*, offers extensive data on the characteristics and performance of the Chicago region's core industrial assets since 2001, available for download at https://cmap.is/Traded-Clusters.

In the Chicago region in 2017, this cluster consisted of

\$2.2 billion total output	<b>16,800</b> jobs
<b>420</b> establishments	+55% more jobs than national average

Source: CMAP analysis of Economic Modeling Specialists International data (Emsi 2018.4).

Workers in this cluster tend to be more racially diverse than the regional labor force.

56% non-white

20% female

4%

commute by transit

44% over age 50

Largest occupations

Assemblers and Fabricators

**Machine Setters** 

**Inspectors and Testers** 

**First-Line Supervisors** 

**Welders and Solderers** 

In recent years, the cluster's competitive position **weakened** as it became **less specialized** in the national context.

-42% -16% total output

Chicago

Source: CMAP analysis of Economic Modeling Specialists International data (Emsi 2018.4).

-26% -4%
jobs total output
Detroit
+2% +1%
jobs total output
Houston

Middle-skill workers have greater opportunity than the regional average.



Note: Job change is from 2001-17, and total output change is from 2007-17.

wage percentiles



of workers have an associate's degree or higher



63%

of jobs typically require at least 2 months of on-the-job training

Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey and Economic Modeling Specialists International data (Emsi 2018.4).

In 2016, this cluster generated approximately

**\$31.2** billion

in freight shipments that originate, terminate, or circulate regionally.

Freight mode share, by value

**87**% **8**% **3**% Truck Multimodal Rail

Freight trade geography, by value









14%

41%

**33**%

**13**%

Chicago Midwest region

st Rest of U.S.

of Global

Source: CMAP analysis of Freight Analysis Framework data (FAF 4.4.1). Note: Data includes only the Illinois portion of the U.S. Census Bureau combined statistical area. Freight data is not provided for service clusters.

Source: CMAP analysis of Integrated Public Use Microdata Series, 2017 American Community Survey data.