

June 2025

# Workforce Outcomes for Community College Shipbuilding Related Programs

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**SLDS**

Statewide Longitudinal  
Data System

Prepared by Mississippi State University's NSPARC

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## ABOUT MISSISSIPPI'S SLDS

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Mississippi's Statewide Longitudinal Data System (SLDS) is one of the most comprehensive systems in the country and includes administrative records from more than 25 education, workforce, and human service agencies in the state. The SLDS allows for the alignment of multiple sources of de-identified administrative data over time to evaluate educational or workforce strategies in terms of real outcomes, such as entrance into employment, wages, and skill gains.

## PREPARED BY MISSISSIPPI STATE UNIVERSITY'S NSPARC

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The National Strategic Planning & Analysis Research Center (NSPARC) at Mississippi State University is a nationally recognized research center that supports data-driven decision-making across workforce development, education, economic development, and public policy. With over two decades of experience, NSPARC specializes in integrating and analyzing data from multiple sources to address complex challenges faced by state agencies, policymakers, educational institutions, and private-sector partners.

NSPARC's interdisciplinary team—including experts in sociology, economics, computer engineering, and public policy, along with professionals in data analytics and machine learning—produces research that is practical, actionable, and impactful. The center's collaborative approach and cross-domain expertise enable it to generate insights that help stakeholders design and implement solutions with real-world relevance.

To learn more, contact NSPARC at [nsparc@nsparc.msstate.edu](mailto:nsparc@nsparc.msstate.edu) or 662-325-9242.

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# Workforce Outcomes for Community College Shipbuilding Related Programs

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## REQUEST

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AccelerateMS has requested summary information on the one, five, and ten year employment and earnings outcomes of graduates from a select set of postsecondary shipbuilding-related degree programs. These programs include:

- Carpentry/Carpenter
- Electrician
- Pipefitting/Pipefitter and Sprinkler Fitter
- Machine Tool Technology/Machinist
- Machine Shop Technology/Assistant
- Welding Technology/Welder

AccelerateMS requested information on graduates from these programs for the following community colleges:

- Mississippi Gulf Coast Community College
- Pearl River Community College
- East Mississippi Community College
- Jones College
- Meridian Community College
- Southwest Mississippi Community College
- East Central Community College

This report includes students who graduated from these seven community colleges between academic year (AY) 2006 to AY 2023.

# METHODOLOGY

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## DATA

**Mississippi Department of Employment Security** – Employer wage records are contributed to the SLDS by the Mississippi Department of Employment Security (MDES). Employer wage records are collected from Mississippi employers that participate in the state’s covered employment system. These data include information on quarterly earnings, industry of employment, and county location of employer.

**Mississippi Community College Data** – Data on community college students are contributed to the SLDS by Mississippi’s 15 community colleges and the Mississippi Community College Board (MCCB). These data include information on enrollment, county of residence, academic major, and graduation.

**Mississippi Public University Data** – Data pertaining to 4-year public university enrollment and graduation come from the administrative records of Mississippi’s eight public universities and the Institutions for Higher Learning (IHL). These data include information on enrollment, county of residence, academic major, and graduation.

## MEASURES

**Number of Graduates** – The number of students who graduated from the following six shipbuilding related programs between AY 2006 to AY 2023:

- Carpentry/Carpenter (CIP code 46.0201)
- Electrician (CIP code 46.0302)
- Pipefitting/Pipefitter and Sprinkler Fitter (CIP code 46.0502)
- Machine Tool Technology/Machinist (CIP code 48.0501)
- Machine Shop Technology/Assistant (CIP code 48.0503)
- Welding Technology/Welder (CIP code 48.0508)

**Employment** – The number and percent of graduates who did not reenroll in a Mississippi community college or public university within one year of graduation, but were employed by Mississippi covered employers within one, five, and ten years after graduation.

**Median Annual Earning (MAE)** – The median annualized earnings of those graduates employed by Mississippi covered employers within one, five, and ten years after graduation.

**Employment in Shipbuilding and Related Industry** – The number and percent employed in shipbuilding and related industries within one, five, and ten years after graduation, among those graduates who were employed by Mississippi covered

employers. Shipbuilding and related industries include:

- Ship Building and Repairing
- Deep Sea Freight Transportation
- Support Activities for Water Transportation

## **DATA SUPPRESSION**

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In accordance with SLDS Rules and Regulations, numeric values less than 10 are suppressed along with the accompanying percentages. These suppressed values are replaced with “<10” symbol, and the accompanying percent is replaced with the “---” symbol.

**TABLE 1: EMPLOYMENT OF MISSISSIPPI COMMUNITY COLLEGE GRADUATES FROM SHIPBUILDING RELATED-PROGRAMS**

| CIP Code | Degree Program                              | # of Graduates | Not Re-enrolled | 1 Year after Graduation |              | 5 Years after Graduation |              | 10 Years After Graduation |              |
|----------|---|----------------|-----------------|-------------------------|--------------|--------------------------|--------------|---------------------------|--------------|
|          |   |                |                 | # Employed              | % Employed   | # Employed               | % Employed   | # Employed                | % Employed   |
| 460201   | Carpentry/Carpenter                         | 445            | 260             | 184                     | 70.8%        | 136                      | 64.2%        | 78                        | 54.5%        |
| 460302   | Electrician                                 | 2,686          | 1,762           | 1,415                   | 80.3%        | 899                      | 68.5%        | 429                       | 61.5%        |
| 460502   | Pipefitting/Pipefitter and Sprinkler Fitter | 80             | 64              | 50                      | 78.1%        | 31                       | 56.4%        | 19                        | 61.3%        |
| 480501   | Machine Tool Technology/Machinist           | 583            | 376             | 317                     | 84.3%        | 197                      | 70.1%        | 91                        | 63.6%        |
| 480503   | Machine Shop Technology/Assistant           | 113            | 76              | 62                      | 81.6%        | 56                       | 73.7%        | 53                        | 69.7%        |
| 480508   | Welding Technology/Welder                   | 3,303          | 2,462           | 2,047                   | 83.1%        | 1,246                    | 66.9%        | 545                       | 58.2%        |
|          | <b>Total</b>                                | <b>7,210</b>   | <b>5,000</b>    | <b>4,075</b>            | <b>81.5%</b> | <b>2,565</b>             | <b>67.5%</b> | <b>1,215</b>              | <b>59.9%</b> |

Notes: “Not Re-enrolled” refers to community college students who graduated from 6 shipbuilding related programs of 7 Mississippi community colleges and did not re-enrolled in a Mississippi community college or public university within one year of graduation. 1-year outcomes are based on community college graduate cohorts AY2006--AY2023, 5-year based on cohorts AY2006--AY2019, and 10-year based on cohorts AY2006--AY2014.

**TABLE 2: MEDIAN EARNING OF EMPLOYED MISSISSIPPI COMMUNITY COLLEGE GRADUATES FROM SHIPBUILDING-RELATED PROGRAMS**

| <b>CIP</b> | <b>Degree Program</b>                       | <b>1 Year after Graduation</b> | <b>5 Years after Graduation</b> | <b>10 Years After Graduation</b> |
|------------|---|--------------------------------|---------------------------------|----------------------------------|
| 460201     | Carpentry/Carpenter                         | \$16,374                       | \$23,884                        | \$35,661                         |
| 460302     | Electrician                                 | \$29,729                       | \$46,289                        | \$56,423                         |
| 460502     | Pipefitting/Pipefitter and Sprinkler Fitter | \$25,760                       | \$45,578                        | \$41,111                         |
| 480501     | Machine Tool Technology/Machinist           | \$33,800                       | \$42,173                        | \$47,719                         |
| 480503     | Machine Shop Technology/Assistant           | \$27,651                       | \$36,914                        | \$43,211                         |
| 480508     | Welding Technology/Welder                   | \$26,589                       | \$36,831                        | \$43,820                         |
|            | <b>Total</b>                                | <b>\$27,779</b>                | <b>\$39,467</b>                 | <b>\$47,100</b>                  |

*Notes: 1-year outcomes are based on community college graduate cohorts AY2006--AY2023, 5-year based on cohorts AY2006--AY2019, and 10-year based on cohorts AY2006--AY2014.*

**TABLE 3: EMPLOYMENT BY INDUSTRY FOR MISSISSIPPI COMMUNITY COLLEGE  
GRADUATES FROM SHIPBUILDING RELATED-PROGRAMS**

| NAICS  | 1 Year after Graduation |              | 5 Years after Graduation |             | 10 Years after Graduation |              |
|--|-------------------------|--------------|--------------------------|-------------|---------------------------|--------------|
|  | # Employed              | % Employed   | # Employed               | % Employed  | # Employed                | % Employed   |
| <b>Shipbuilding Related Industries</b>                                   | <b>394</b>              | <b>9.7</b>   | <b>221</b>               | <b>8.6</b>  | <b>110</b>                | <b>9.1</b>   |
| <b>Other Industries</b>  | <b>3,681</b>            | <b>90.3</b>  | <b>2,344</b>             | <b>91.4</b> | <b>1,105</b>              | <b>90.9</b>  |
| Manufacturing  | 1,011                   | 27.5         | 780                      | 33.3        | 329                       | 29.8         |
| Construction   | 839                     | 22.8         | 428                      | 18.3        | 165                       | 14.9         |
| Administrative and Support and Waste Management and Remediation Services | 589                     | 16.0         | 269                      | 11.5        | 122                       | 11.0         |
| Accommodation and Food Services  | 387                     | 10.5         | 136                      | 5.8         | 51                        | 4.6          |
| Retail Trade   | 255                     | 6.9          | 138                      | 5.9         | 70                        | 6.3          |
| Other Services (except Public Administration)                            | 80                      | 2.2          | 41                       | 1.7         | 17                        | 1.5          |
| Educational Services   | 78                      | 2.1          | 77                       | 3.3         | 36                        | 3.3          |
| Wholesale Trade  | 61                      | 1.7          | 58                       | 2.5         | 37                        | 3.3          |
| Health Care and Social Assistance  | 59                      | 1.6          | 55                       | 2.3         | 36                        | 3.3          |
| Transportation and Warehousing   | 58                      | 1.6          | 94                       | 4.0         | 65                        | 5.9          |
| Public Administration  | 54                      | 1.5          | 67                       | 2.9         | 51                        | 4.6          |
| Mining, Quarrying, and Oil and Gas Extraction                            | 37                      | 1.0          | 30                       | 1.3         | 14                        | 1.3          |
| Crop and Animal Production   | 31                      | 0.8          | 33                       | 1.4         | 17                        | 1.5          |
| Professional, Scientific, and Technical Services                         | 28                      | 0.8          | 28                       | 1.2         | 14                        | 1.3          |
| Utilities  | 28                      | 0.8          | 58                       | 2.5         | 43                        | 3.9          |
| Arts, Entertainment, and Recreation                                      | 24                      | 0.7          | <10                      | ---         | <10                       | ---          |
| Real Estate and Rental and Leasing                                       | 23                      | 0.6          | 17                       | 0.7         | 15                        | 1.4          |
| Information  | 19                      | 0.5          | 17                       | 0.7         | <10                       | ---          |
| Management of Companies and Enterprises                                  | 11                      | 0.3          | <10                      | ---         | <10                       | ---          |
| Finance and Insurance  | <10                     | ---          | <10                      | ---         | <10                       | ---          |
| <b>Total</b>   | <b>4,075</b>            | <b>100.0</b> | <b>2,565</b>             | <b>100</b>  | <b>1,215</b>              | <b>100.0</b> |

Notes: Outcomes for “Other Industries” exclude those not working in shipbuilding related industries. For example, Manufacturing under “Other Industries” refers to all manufacturing subsectors except shipbuilding-related manufacturing subsectors. 1-year outcomes are based on community college graduate cohorts AY2006--AY2023, 5-year based on cohorts AY2006--AY2019, and 10-year based on cohorts AY2006--AY2014.

**TABLE 4: EMPLOYMENT OF COMMUNITY COLLEGE GRADUATES FROM SHIPBUILDING  
RELATED PROGRAMS WITHIN ONE YEAR OF GRADUATION:  
SHIPBUILDING VS. OTHER INDUSTRIAL SECTORS**

| CIP    | Degree Program                                 | 1 Year after Graduation             |                                     |  |  |
|--------|--|-------------------------------------|-------------------------------------|--|--|
|        |  | #<br>Employed<br>In<br>Shipbuilding | %<br>Employed<br>In<br>Shipbuilding | #<br>Employed<br>In<br>Other<br>Industries | %<br>Employed<br>In<br>Other<br>Industries |
| 460201 | Carpentry/Carpenter                            | <10                                 | ---                                 | 182  | 98.9%                                      |
| 460302 | Electrician                                    | 89                                  | 6.3%                                | 1,326                                      | 93.7%                                      |
| 460502 | Pipefitting/Pipefitter<br>and Sprinkler Fitter | 22                                  | 44.0%                               | 28   | 56.0%                                      |
| 480501 | Machine Tool<br>Technology/Machinist           | 13                                  | 4.1%                                | 304  | 95.9%                                      |
| 480503 | Machine Shop<br>Technology/Assistant           | <10                                 | ---                                 | 59   | 95.2%                                      |
| 480508 | Welding Technology<br>/Welder                  | 265                                 | 12.9%                               | 1,782                                      | 87.1%                                      |
|        | <b>Total</b>                                   | <b>394</b>                          | <b>9.7%</b>                         | <b>3,681</b>                               | <b>90.3%</b>                               |

Notes: 1-year outcomes are based on community college graduate cohorts AY2006--AY2023.

**TABLE 5: EMPLOYMENT OF COMMUNITY COLLEGE GRADUATES FROM SHIPBUILDING  
RELATED PROGRAMS WITHIN FIVE YEARS OF GRADUATION:  
SHIPBUILDING VS. OTHER INDUSTRIAL SECTORS**

| CIP    | Degree Program                                 | 5 Years after Graduation            |                                     |  |  |
|--------|--|-------------------------------------|-------------------------------------|--|--|
|        |  | #<br>Employed<br>In<br>Shipbuilding | %<br>Employed<br>In<br>Shipbuilding | #<br>Employed<br>In<br>Other<br>Industries | %<br>Employed<br>In<br>Other<br>Industries |
| 460201 | Carpentry/Carpenter                            | <10                                 | ---                                 | 131  | 96.3%                                      |
| 460302 | Electrician                                    | 62                                  | 6.9%                                | 837  | 93.1%                                      |
| 460502 | Pipefitting/Pipefitter<br>and Sprinkler Fitter | 17                                  | 54.8%                               | 14   | 45.2%                                      |
| 480501 | Machine Tool<br>Technology/Machinist           | 12                                  | 6.1%                                | 185  | 93.9%                                      |
| 480503 | Machine Shop<br>Technology/Assistant           | <10                                 | ---                                 | 54   | 96.4%                                      |
| 480508 | Welding Technology<br>/Welder                  | 123                                 | 9.9%                                | 1,123                                      | 90.1%                                      |
|        | <b>Total</b>                                   | <b>221</b>                          | <b>8.6%</b>                         | <b>2,344</b>                               | <b>91.4%</b>                               |

Notes: 5-year outcomes are based on community college graduate cohorts AY2006--AY2019.

**TABLE 6: EMPLOYMENT OF COMMUNITY COLLEGE GRADUATES FROM SHIPBUILDING  
RELATED PROGRAMS WITHIN TEN YEARS OF GRADUATION:  
SHIPBUILDING VS. OTHER INDUSTRIAL SECTORS**

| CIP    | Degree Program                                 | 10 Years after Graduation           |                                     |  |  |
|--------|--|-------------------------------------|-------------------------------------|--|--|
|        |  | #<br>Employed<br>In<br>Shipbuilding | %<br>Employed<br>In<br>Shipbuilding | #<br>Employed<br>In<br>Other<br>Industries | %<br>Employed<br>In<br>Other<br>Industries |
| 460201 | Carpentry/Carpenter                            | <10                                 | ---                                 | 77   | 98.7%                                      |
| 460302 | Electrician                                    | 46                                  | 10.7%                               | 383  | 89.3%                                      |
| 460502 | Pipefitting/Pipefitter<br>and Sprinkler Fitter | <10                                 | ---                                 | 10   | 52.6%                                      |
| 480501 | Machine Tool<br>Technology/Machinist           | <10                                 | ---                                 | 87   | 95.6%                                      |
| 480503 | Machine Shop<br>Technology/Assistant           | <10                                 | ---                                 | 50   | 94.3%                                      |
| 480508 | Welding Technology<br>/Welder                  | 47                                  | 8.6%                                | 498  | 91.4%                                      |
|        | <b>Total</b>                                   | <b>110</b>                          | <b>9.1%</b>                         | <b>1,105</b>                               | <b>90.9%</b>                               |

Notes: 10-year outcomes are based on community college graduate cohorts AY2006--AY2014.



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