

December 2022

# **Enrollment and Graduates from Automotive Manufacturing Related Degree Programs**

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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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NSPARC, the National Strategic Planning & Analysis Research Center at Mississippi State University, is a trusted source for research addressing critical challenges faced by government, economic and workforce development professionals, educational institutions, nonprofits, and the private sector. Drawing on a team of social scientists, economists, data engineers, data analysts, and machine learning experts, NSPARC facilitates informed decision-making.

With over 20 years of experience, NSPARC excels at combining data from disparate sources to tackle complex issues. NSPARC scientists uncover trends and enable evidence-based research across areas ranging from workforce development, education, and economics to disaster resilience, and community development. NSPARC scientists' versatility allows them to easily translate knowledge from one domain to another and collaborate effectively with diverse partners, ensuring research findings have real-world impact. This allows NSPARC to draw meaningful insights from data to address challenges faced by policymakers, employers, economic developers, and state agencies.

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

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# Enrollment and Graduates from Automotive Manufacturing Related Degree Programs

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## OVERVIEW

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This brief provides information pertaining to *enrollment in* and *graduation from* several requested degree programs related to automotive manufacturing industry. Specifically, this report provides summary data on degree programs that prepare students to enter six occupations from three requested community colleges. The occupations and colleges requested for this analysis were provided by AccelerateMS.

The requested occupations are:

1. Automotive Body and Related Repairer
2. Automotive Service Technician and Mechanic
3. Coating Painting and Spraying Machine Setter Operator and Tender
4. Electro-Mechanical and Mechatronics Technologist and Technician
5. Industrial Machinery Mechanic
6. Electrical and Electronic Engineering Technologist and Technician

The requested community colleges are:

1. Jones College
2. Mississippi Gulf Coast Community College
3. Pearl River Community College

## DATA AND INDICATORS

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The following data were used in this analysis. These data were obtained from Mississippi's State Longitudinal Data System (SLDS).

**Mississippi Community College Data** – Data on community college enrollment and graduates are contributed to the SLDS by Mississippi's 15 community colleges and the Mississippi Community College Board (MCCB). These data include information on the enrollment, county of residence, academic major, and graduation of approximately 73,000 students each year.

Using these data, the following indicators were measured:

**Number of Students Enrolled** – The number of students enrolled at Jones College, Mississippi Gulf Coast Community College, or Pearl River Community College in a degree program related to the identified occupations in Academic Years (AY) 2017, 2018, 2019, 2020, or 2021.

**Number of Graduates** – The number of graduates from Jones College, Mississippi Gulf Coast Community College, or Pearl River Community College who graduated from a degree program related to the identified occupations in Academic Years (AY) 2017, 2018, 2019, 2020, or 2021.

## METHODOLOGY

To identify the degree programs that are related to the requested occupations, a list of possible degree program matches was created using Education-to-Occupation crosswalks generated by the National Center for Education Statistics (NCES). These include Associate of Applied Science programs, as well as Technical and Vocational Certificates.

The three requested colleges were then examined to determine the number of students enrolled in each program, and the program's total number of graduates. These degree programs are presented in Table 1.

**TABLE 1: LIST OF ALIGNED INSTRUCTIONAL PROGRAMS**

CIP Code	Program Title
<b><i>Automotive Body and Related Repairer</i></b>	
47.0603	Autobody/Collision and Repair Technology/Technician
<b><i>Automotive Service Technician and Mechanic</i></b>	
47.0604	Automobile/Automotive Mechanics Technology/Technician
<b><i>Coating Painting and Spraying Machine Setter Operator and Tender</i></b>	
No matches identified	
<b><i>Electro-Mechanical and Mechatronics Technologist and Technician</i></b>	
15.0406	Automation Engineer Technology/Technician
15.0499	Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other
<b><i>Industrial Machinery Mechanic</i></b>	
47.0302	Heavy Equipment Maintenance Technology/Technician
<b><i>Electrical and Electronic Engineering Technologist and Technician</i></b>	
14.1000	Electrical, Electronics and Communications Engineering
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician

## RESULTS

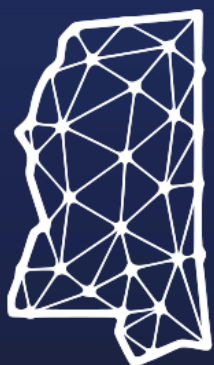
Table 2 presents the **Number of Students Enrolled** in the requested programs and colleges from AY 2017 through AY 2021, and Table 3 presents the **Number of Graduates** during this time period.

**TABLE 2: STUDENTS ENROLLED IN ALIGNED PROGRAMS,  
AY 2017 – AY 2021**

Program	2017	2018	2019	2020	2021
<b><i>Automotive Body and Related Repairer</i></b>	<b>22</b>	<b>23</b>	<b>27</b>	<b>25</b>	<b>13</b>
Jones College	-	-	-	-	-
Mississippi Gulf Coast Community College	22	23	27	25	13
Pearl River Community College	-	-	-	-	-
<b><i>Automotive Service Technician and Mechanic</i></b>	<b>147</b>	<b>128</b>	<b>136</b>	<b>145</b>	<b>151</b>
Jones College	40	28	24	34	46
Mississippi Gulf Coast Community College	71	60	68	73	74
Pearl River Community College	36	40	44	38	31
<b><i>Electro-Mechanical and Mechatronics Technologist and Technician</i></b>	<b>-</b>	<b>-</b>	<b>28</b>	<b>63</b>	<b>40</b>
Jones College	-	-	28	43	31
Mississippi Gulf Coast Community College	-	-	-	20	9
Pearl River Community College	-	-	-	-	-
<b><i>Industrial Machinery Mechanic</i></b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10</b>
Jones College	-	-	-	-	-
Mississippi Gulf Coast Community College	-	-	-	-	10
Pearl River Community College	-	-	-	-	-
<b><i>Electrical and Electronic Engineering Technologist and Technician</i></b>	<b>178</b>	<b>200</b>	<b>160</b>	<b>198</b>	<b>135</b>
Jones College	44	40	22	1	4
Mississippi Gulf Coast Community College	38	18	23	126	51
Pearl River Community College	63	107	97	71	76
<b>Total</b>	<b>314</b>	<b>316</b>	<b>333</b>	<b>431</b>	<b>345</b>

**TABLE 3: GRADUATES FROM ALIGNED PROGRAMS,  
AY 2017 – AY 2021**

<b>Program</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b><i>Automotive Body and Related Repairer</i></b>	<b>1</b>	<b>13</b>	<b>16</b>	<b>6</b>	<b>8</b>
Jones College	-	-	-	-	-
Mississippi Gulf Coast Community College	1	13	16	6	8
Pearl River Community College	-	-	-	-	-
<b><i>Automotive Service Technician and Mechanic</i></b>	<b>48</b>	<b>49</b>	<b>54</b>	<b>49</b>	<b>47</b>
Jones College	18	6	7	6	7
Mississippi Gulf Coast Community College	25	34	35	33	30
Pearl River Community College	5	9	12	10	10
<b><i>Electro-Mechanical and Mechatronics Technologist and Technician</i></b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>23</b>	<b>28</b>
Jones College	-	-	2	23	13
Mississippi Gulf Coast Community College	-	-	-	-	15
Pearl River Community College	-	-	-	-	-
<b><i>Industrial Machinery Mechanic</i></b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>
Jones College	-	-	-	-	-
Mississippi Gulf Coast Community College	-	-	-	-	5
Pearl River Community College	-	-	-	-	-
<b><i>Electrical and Electronic Engineering Technologist and Technician</i></b>	<b>80</b>	<b>85</b>	<b>73</b>	<b>61</b>	<b>59</b>
Jones College	20	20	15	-	-
Mississippi Gulf Coast Community College	10	19	12	6	10
Pearl River Community College	50	46	46	55	49
<b>Total</b>	<b>129</b>	<b>147</b>	<b>145</b>	<b>139</b>	<b>147</b>



# SLDS

**Statewide Longitudinal  
Data System**

**Prepared by Mississippi State University's NSPARC**



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