

## Memorandum

To: Christopher Eugene Moore, Automotive Technology Department Co-Chair, American River College

From: Ebony J. Benzing, Research Manager, North/Far North Center of Excellence

Date: Friday, October 7, 2022

Re: PPC Memo – Automotive Powertrain Systems Remanufacturing

---

American River College requested labor market data from the North (Greater Sacramento) Center of Excellence for a new program: Automotive Powertrain Systems Remanufacturing. This memo supports Los Rios' program development process through the Program Placement Council.

This memo analyzes occupational demand, wages, and program supply data to assess labor market gaps in the North (Greater Sacramento) subregion. The data covers the 7-county North (Greater Sacramento) region and comes from EMSI. Occupations are aligned to career education programs using the Center of Excellence TOP-to-CIP-to-SOC crosswalk and the ONet OnLine CIP code education crosswalk.

### Findings

- The occupation aligned to the proposed Automotive Powertrain Systems Remanufacturing program include automotive service technicians and machinists.
- The entry-level wages for the occupations range from \$16 to \$18 per hour, which is above the living wage (\$14.53) for a single adult in the Greater Sacramento subregion.
- There are nearly 900 annual job openings for automotive service technicians and machinists over the next five years.
- Between 2018-19 and 2020-21, community colleges and other postsecondary institutions in the Greater Sacramento subregion conferred an average of 559 awards per year in Automotive Technology programs. The COE did not identify programs under the Machining and Machine Tools (0956.30) TOP code.
- The supply-gap analysis reveals an undersupply of automotive service technicians and machinists in the Greater Sacramento area.

Please get in touch with Ebony Benzing, COE Research Manager, for further information at [Ebony.Benzing@losrios.edu](mailto:Ebony.Benzing@losrios.edu) or 916-563-3215.

**Exhibit 1. Occupational demand and educational supply data for Commercial Music programs in North (Greater Sacramento)**

Top6	Top6_Title	SOC Code	SOC Title	Typical Entry-Level Education	Entry-Level Wage (25 <sup>th</sup> Pct.)
0948.00	Automotive Technology	49-3023	Automotive Service Technicians	Postsecondary nondegree award	\$15.95
		51-4041	Machinists	HS Diploma or Equivalent	\$17.93

**Geography - The program specifically targets the labor market need for trained workers in...**

Region/Subregion list			County list	
North/Greater Sacramento			El Dorado, Nevada, Placer, Sacramento, Sutter, Yolo, and Yuba	
<b>Demand</b> - the program(s) prepare students to work in the following occupations...			<b>Supply</b> - How many awards (certificates and degrees) are conferred by community colleges and other post-secondary institutions in the region/county identified?	
SOC Code	Occupational Title	2021-2026 Avg. Annual Openings	Institution Type	2018/19 - 2020/21 Avg. Annual Awards
49-3023	Automotive Service Technicians	740	Community Colleges	113
51-4041	Machinists	155	Other Post-secondary Institutions	446
			<b>Summary of Data:</b>	
			Demand	895
			Supply	559
			<b>Analysis:</b>	<b>UNDERSUPPLY</b>

Community colleges with the same TOP program:		Other ed programs with corresponding CIP programs:	
TOP6 - Top Title		CIP - Cip Title	
School	2018/19 – 2020/21 Average Annual Awards	School	2018/19 – 2020/21 Average Annual Awards
0948.00 – Automotive Technology		47.0604 – Automobile/Automotive Mechanics Technology/Technician	
American River	47	UEI College	12
Cosumnes River	38	Universal Technical Institute of Northern California	434
Sierra	14		

Yuba	14		
0956.30 – Machining and Machine Tools		48.0501 – Machine Tool Technology/Machinist	
N/A		N/A	