

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 – Green Vehicle Technology

American River College requested labor market data from the North (Greater Sacramento) Center of Excellence for a new program: Green Vehicle Technology. 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 Green Vehicle Technology program is an automotive service technician.
- The entry-level wage for automotive service technicians is \$16 per hour, above the living wage (\$14.53) for a single adult in the Greater Sacramento subregion.
- There are 740 annual job openings for automotive service technicians 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 Alternative Fuels and Advanced Transportation Technology (0948.40) TOP code.
- The supply-gap analysis reveals an undersupply of automotive service technicians in the Greater Sacramento area.

Please get in touch with Ebony Benzing, COE Research Manager, for further information at 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 th Pct.)
0948.40	Alternative Fuels and Advanced Transportation Technology	49-3023	Automotive Service Technicians	Postsecondary nondegree award	\$15.95

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	
Demand - the program(s) prepare students to work in the following occupations...			Supply - 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
			Other Post-secondary Institutions	446
			Summary of Data:	
			Demand	740
			Supply	559
			Analysis:	UNDERSUPPLY

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
0948.40 – Alternative Fuels and Advanced Transportation Technology		47.0614 – Alternative Fuel Vehicle Technology/Technician	
N/A		N/A	
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		