

Automotive Strategic Workforce Initiative Proposal



Partnership—Weber State University, through the College of Engineering, Applied Science & Technology (EAST) and the Department of Automotive Technology, a departmental unit within EAST, is applying for Strategic Workforce Initiative funding for a new cooperative project in vehicle maintenance and repair industry needs between the following partners:

- Weber State University (WSU)—David Ferro, Dean, College of Engineering, Applied Science & Technology; Allyson Saunders, Associate Dean, College of Engineering, Applied Science & Technology; Scott Hadzik, Department Chair, Automotive Technology
- Bridgerland Technical College (BTECH), Chad Campbell, President; John Davidson, Vice President for Instruction, Contracts, and Grants; Mike Nield, Department Head and Instructor for Automotive
- Davis Technical College (Davis Tech), Mike Bouwhuis, President; Kim Ziebarth, Vice President of Instruction; Marcie Valdez, Foundation Director and Grant Writer/Administrator; Mark Hadley, Director of Technical and Apprenticeship Program; John Riley, Automotive Faculty
- Ogden-Weber Technical College (OWTC), James Taggart, President; Roger Snow, Vice President for Instructional Services; Monica Schwenk, Development Director; Eric Rassi, Automotive Instructor
- Salt Lake Community College (SLCC), Eric Heiser, Dean, School of Applied Technology and Technical Specialties; Norm Brown, Program Coordinator, Automotive Technician

Stackable Sequence of Credentials—This career pathway consists of stackable credentials (see Figure 1) beginning with high school and adult students at technical colleges or Salt Lake Community College students. Specifically designed to streamline student progress toward a STEM-oriented career goal, this pathway offers multiple entry and exit points culminating in an associate degree or higher in automotive technology. The degrees directly support economic growth in the high-demand industry cluster of automotive technology. Students with basic

skills are highly sought after by employers and frequently secure employment as automotive service technicians while continuing their education in advanced vehicle diagnostics. Finding skilled and experienced automotive service technicians capable of advanced vehicle diagnostics is critical to the automotive industry in Utah.

WSU students enroll in automotive technology programs at technical colleges and/or SLCC to complete a portion (approximately one semester) of WSU AAS degree in Automotive Technology. The intent of WSU is to continue articulating coursework for the technical college's certificates of proficiency. The AAS degree at SLCC has also been articulated with the Automotive Technology BS degree at WSU; consequently, students can transfer directly from SLCC to the BS degree at WSU. Although international students are a small component of the WSU students, SLCC provides an opportunity for both domestic students and international students to take these courses and transfer to WSU. The articulations allow WSU to give all students an opportunity to complete a bachelor's degree in automotive technology.

1. Technical College Automotive Programs
 - a. BTECH
 - b. Davis Tech
 - c. OWTC
2. Associate of Applied Science in Automotive Technology
 - a. WSU
 - b. SLCC
3. Bachelor of Science, Automotive Technology
 - a. WSU

The stackable degrees provided by WSU's partnership with SLCC, BTECH, Davis Tech, and OWTC offers a number of entry and exit points. Each successive step provides students access to an advanced degree and associated higher wages, achieving a primary objective of Strategic Workforce Investment. Students taking advantage of the stackable credential track will possess the technical skills necessary to be employed with automotive repair facilities throughout the state.



STRATEGIC WORKFORCE



Educational Pathways



Figure 1: Strategic Workforce On-Ramps and Off-Ramps

The detailed courses for the Automotive Service Stackable Credentials are shown below. The first section (Step 1) shows the various courses from BTECH, Davis Tech, and OWTC. These courses are equivalent to 14 credits at WSU. Students then complete their AAS at WSU. The goal is to have these courses taught only at the technical colleges or SLCC. Thus, automotive technology in Northern Utah would be truly stackable. (It is intended to add the new process while keeping current articulation agreements.)

Automotive Service Stackable Credentials			
Step 1: Complete appropriate courses at Davis Tech, OWTC, or BTEch			
Ogden Weber Technical College		Bridgerland Technical College	
Step 1: Complete the Following Courses at OWTC		Step 1: Complete the Following Courses at BTEch	
	Hours		Hours
AUTO 1000 Foundations and Safety	50	ACDM 1400 Job Seek & Work Relations	30
AUTO 1005 Automotive Electric/Electronic Systems 1	50	AUTO 1015 Intro Automotive Services	120
AUTO 1020 Automotive Suspension and Steering 1	100	AUTO 1010 Introduction & Safety	30
AUTO 1025 Automotive Suspension and Steering 2	50	AUTO 1063 Steering & Suspension	135
AUTO 1030 Automotive Brakes 1	100	AUTO 1073 Brakes	135
AUTO 1035 Automotive Brakes 2	50	AUTO 1053 Engine Repair	150
AUTO 1040 Automotive Engine Repair 1	50	AUTO 1132 Heat, Vent, Air Conditioning	120
AUTO 1045 Automotive Engine Repair 2	100	Total	720
AUTO 1050 Automotive Automatic Transmission/Transaxle 1	25		
AUTO 1060 Automotive Manual Drivetrain and Axles 1	25	Davis Technical College	
AUTO 1070 Automotive Heating and Air Conditioning 1	50	Step 1: Complete the Following Courses at Davis Tech	
AUTO 1075 Automotive Heating and Air Conditioning 2	50		Hours
AUTO 1080 Automotive Engine Performance 1	50	AUTO 1005 Introduction and Safety	60
AUTO 1090 ASE G1 Preparation	10	AUTO 2042 ASE Brake Systems 1	90
AUTO 1300 Automotive Critical Workplace Skills	10	AUTO 2043 ASE Brake Systems 2	90
Total	770	AUTO 2032 ASE Steering and Suspension 1	90
		AUTO 2033 ASE Steering and Suspension 2	120
		AUTO 2002 ASE Engine Repair 1	30
		AUTO 2003 ASE Engine Repair 2	180
		AUTO 2070 ASE Heating Ventilation and Air Conditioning 1	30
		AUTO 2070 ASE Heating Ventilation and Air Conditioning 2	60
		Total	750

Weber State University

Step 2: Associate of Applied Science Degree, Automotive Technology

At Least 600 hours at Davis Tech, OWTC, or BTech (14 Credits) / WSU (51 credits)

Required Automotive Courses	
Step 2: Complete the Following Courses at WSU	Hours
AUSV 1010 Automotive Orientation	1
AUSV 1320 Automotive Electronics 1	2
AUSV 1323 Automotive Electronics 2	2
AUSV 1325 Automotive Electronics 3	3
AUSV 2860 Cooperative Practicum	3
AUSV 1220 Manual Drivetrain Systems	3
AUSV 2120 Automotive Electrical/Body Control	3
AUSV 2520 Automatic Transmissions	4
AUSV 2020 Automotive Engine Control Systems	3
Total	24

Required General Education and Support	
Step 2: Complete the Following Courses at WSU	Hours
MATH 1010 Intermediate Algebra	3
ENGL 1010 EN Introduction to College Writing	3
COMM HU2110 Interpersonal & Small Group Comm.	3
Humanities (SS)/Diversity (DV)	3
Humanities (HU) (Except Communication)	3
CHEM 1010 PS Introduction to Chemistry	3
PS 3203 Customer Service Techniques	3
Computer Information Literacy (CIL), A-C*	3
Total	24

Salt Lake Community College

Step 2: Associate of Applied Science Degree, Automotive Technician

Required Automotive Courses	
Step 2: Complete the Following Courses at SLCC	Hours
AUTO 1010 - Maint & Lt Repair Fundamentals	6
AUTO 1150 - Auto Electrical & Electronics	6
AUTO 1250 - Automotive Engine Repair	6
AUTO 1350 - Automotive Braking Systems	6
AUTO 1450 - Auto. Suspension & Steering	6
AUTO 2150 - Manual Transmissions & AC	6
AUTO 2250 - Automatic Transmissions	6
AUTO 2350 - Engine & Emission Controls I	6
AUTO 2450 - Engine & Emission Controls II	6
Total	54

Required General Education and Support	
Step 2: Complete the Following Courses at SLCC	Hours
ENGL 1010 - Intro to Writing (EN)	3
IND 1120 - Math for Industry (QS)	3
Any approved Communication course	3
Any approved Human Resources course	3
One additional course from a specified list	3
Total	15

Weber State University

Step 3: Bachelor of Science Automotive Technology

Automotive AAS Degree

Required Automotive Courses	
Step 3: Complete the Following Courses at WSU	Hours
ATTC 3000 Introduction to Automotive Technology	1
ATTC 3020 Intro to Safety Mgmt. & Hazardous Materials	3
ATTC 3260 Advanced Electrical Systems	3
ATTC 3760 Advanced Automotive Technologies	3
ATTC 3880 Cooperative Practicum	3
ATTC 4560 Advanced Propulsion Systems	3
ATTC 4720 SI Capstone Project	3
ATTC 4760 Alternate Fuel Systems	3
ATTC 4860 Automotive Standards, Laws, and Regulations	3
Total	25

Required General Education and Support	
Step 3: Complete the Following Courses at WSU	Hours
BTNY 1403 LS Environmental Appreciation	3
ENGL 2010 EN Intermediate College Writing	3
ENGL 3100 Professional and Technical Writing	3
LIBS 1704 TD Information Navigator	3
ECON 1740 AI Economic History of the United States	3
Creative Arts (CA)	3
PHIL 1250 HU Critical Thinking	3
PSY 1010 SS Introductory Psychology	3
WEB 2080 Database Applications	3
WEB 3070 Advanced Spreadsheet Applications	3
WEB 3090 Advanced Electronic Presentations	2
PS 3563 Principles of Supervision	3
PS 4203 Ethical Sales and Service	3
PS 3702 Developing Team Leadership Skills	2
MFET 2410 SI Quality Concepts and Statistical Applications	3
NET 3250 Business Communications	3
Total	46

Figure 2: Automotive Stackable Credentials

Evidence of Support from Industry

The following companies or entities have indicated a critical need for employees in this career path and have affirmed support for this proposal by providing part-time employment early in a student's educational path. These firms represent a broad cross-section of Utah's transportation repair industry. Support of the project is wide ranging, from relatively small, privately held organizations, to large international firms. Kenneth Rees, UTA, stated "We are excited about the opportunity to work with various institutions in identifying ways in which we can work together to meet critical educational competencies and have trained technicians that possess the necessary skills as we move forward into the future successfully." The companies listed below have made similar comments.

Nathan Thies, Manager, Les Schwab Tire Center, Logan, "Our company plans to hire 150 employees in the state of Utah in 2018. We plan on building up to 5 new stores in Utah in the next few years. We specialize in tires, brakes and suspension. New employees with some basic training in these areas have a huge advantage over employees without. Employees with some training in these areas normally have a higher starting wage."

John Garff, CEO, Ken Garff Automotive Group, "The Ken Garff Automotive Group has a need to hire qualified individuals in our service department at our dealerships throughout the state. We feel that there is currently a shortage of qualified individuals to fill the high-quality positions that we have available in our stores. We recognize that the automotive education institutions in the state are a great pathway for students to enter into this high-demand, high-wage career field."

Blake Murdock, Sr., CEO of Murdock Automotive Group, stated "We always need technicians at our dealerships. It is a position that is vital, as we value good service, yet it's one of the most difficult to fill." Murdock Automotive Group is a family-owned business and one of the oldest car dealerships in the state with over 90 years in business. Murdock has 6 dealerships in Utah. A new partnership with Davis Tech provides a pathway for new career potential for students and will provide Murdock with people who are prepared for employment in this high-demand field.

Christopher Kay, Young Mazda, stated that there is a shortage of qualified automotive technicians that has led to negative impacts on their abilities to conduct business. As many as 5 ongoing openings remain unfilled at any given time, limiting the ability to service vehicles in a timely manner.

Kenneth Rees , Maintenance Manager, Utah Transit Authority, "I am writing you on behalf of the Utah Transit Authority maintenance departments indicating our support for moving forward with a partnering program with educational institutions to meet the training and hiring requirements we will have in the future.

We are excited about the opportunity to work with various institutions in identifying ways in which we can work together to meet critical educational competencies and have trained technicians that possess the necessary skills as we move forward into the future successfully."

Ryan Lamb , Service and Parts Area Manager, Fiat Chrysler Automobiles, "Automotive Manufacturers are experiencing very rapid growth. We have more vehicles on the roads than ever before. The increase of vehicles brought with it an increased demand for qualified technicians to be able to service and the repair them. With the technological advances being-made in the automotive industry, automotive education programs are vital to ensure enough qualified individuals are entering the job force to meet the current and growing demand."

Steve Hoellein, Chairman of the AAAC , Automotive Aftermarket Advisory Council, "For the last thirty or more years we have seen the need for qualified technicians. Over the years vehicles have become more advanced and the shortage of technicians keeps growing. We recognize that the great automotive education institutions are in place here. It's the only pathway to get these great students to enter into this high-demand, high-wage career field"

Nick Barnes, Owner, Big O Tires South Ogden, "Big O Tires has a need to hire qualified individuals in our mechanical, oil and lube departments. This is very consistent throughout the state as we meet with our Independent business owners. We feel that there is currently a shortage of qualified individuals to fill the high-quality positions, with the cars getting more and more sophisticated, the need for qualified individuals with training becomes more prevalent. We recognize that the automotive education institutions in the state are a great pathway for students to enter into this high-demand, high-wage career field. It has been and will continue to be a resource for us an Independent Tire and Repair shops."

Kelly Faley, Mopar CAP Relationship Manager, Fiat Chrysler Automobiles, "The automotive industry is selling more vehicles than ever, and advancements in automotive technology are creating the need for more qualified individuals to service and repair vehicles. Dealerships are handling this demand in two ways – they're expanding their facilities, and they're hiring more people and the demand isn't expected to decrease anytime soon. Today, there are approximately 650,000 automotive technicians employed in the U. S. That number is expected to explode to 760,000 jobs by 2022. As for FCA's share of that number, our dealerships currently employ 26,000 automotive technicians. To keep up with demand, FCA dealerships are expected to hire another 5,500 technicians over the next two years, and expand the total pool of technicians to more than 30,000 by the end of next year."

Program of Study Workforce Needs—According to the Utah Department of Workforce Services Occupational Projections for 2014-2024, Automotive Service Technicians and Mechanics positions will increase 2.5 % while Bus and Truck Mechanics and Diesel Engine Specialists will increase 3.0%. Table 1 illustrates the number of Utah job openings and wages according to the Division of Workforce Services for job titles at the various levels of education.

Table 1. Employment Information (Source: DWS unless otherwise indicated)				
Stackable Educational Level	Job Title	Statewide Occupational Projections (2014-2024)		Median Annual Wage
		Annual Growth	Annual Replacement	
Automotive Technical Training	Automotive and Watercraft Service Attendants	30	40	\$21,740
	Tire Repairers and Changers	30	50	\$24,780
	Outdoor Power Equipment and Other Small Engines	10	10	\$26,980
	Motorboat Mechanics and Service Technicians	10	10	\$37,690
	Farm Equipment Mechanics and Service Technicians	10	10	\$38,600
	Motorcycle Mechanics	10	0	\$40,040
	Recreational Vehicle Service Technicians	0	10	\$42,610
	Automotive Service Technicians and Mechanics	190	200	\$37,750
Associate of Science in Automotive Technology	Automotive Service Technicians and Mechanics	190	200	\$37,750
	Bus and Truck Mechanics and Diesel Engine Specialists	90	50	\$42,970
	Automotive Body and Related Repairers	50	40	\$44,170
	Mobile Heavy Equipment Mechanics	40	50	\$51,850
	First-Line Supervisors of Mechanics, Installers and Repairers	110	90	\$62,150
	First-Line Supervisors of Transportation and Material Moving Machine and Vehicle Operators	30	40	\$57,790
Bachelor of Science in Automotive Technology <i>(needed for promotions and job transferability)</i>	After-Sales Product Engineer Field Technical Engineer Fleet Manager Dealership Service Manager Dealership General Manager District Manager	\$55,000-\$65,000 \$75,000 with experience <i>Source: WSU Faculty</i>		

Davis Tech—Davis Technical College students enrolled in the Automotive Technology program will learn to utilize industry standard tools and procedures for entry-level automotive servicing, diagnostics, and maintenance. The program offers a learning environment similar to what students should expect to encounter in the automotive servicing, diagnostics, and maintenance industries. Students are provided a large variety of vehicle makes and models – both foreign and domestic – to work with while completing the program to gain valuable hands-on experience. The Automotive Technology program is a MAST program accredited through the National Automotive Technician’s Education Foundation.

Students find employment as automotive service technicians and mechanics capable of diagnosing, maintaining, and repairing automotive vehicles. Students can also work in vehicle safety and emissions testing.

OWTC—Ogden-Weber Technical College’s Automotive Technician program is based on the National Automotive Technical Education Foundation (NATEF) standards and includes instruction to take 4 Automotive Service Excellence (ASE) certification exams and the G1-General Technician for Maintenance and Light Repair Certification exam. The program also prepares students to take the Safety Inspections and Vehicle Emissions Testing exams. Students demonstrate proficiency in diagnosing and repairing engines, brakes, suspensions and electronic systems.

Job placements are made with small body shops such as Old School Body Shop, to large dealerships like Ken Garff Nissan & Honda.

BTECH—Bridgerland Technical College’s Automotive Service Certificate has skilled and experienced instructors to provide real-world training in electrical/electronics systems, engine performance/repair, steering/suspension, brakes, drive train/axles, transmissions, heating/ventilation/air conditioning, light duty diesel, and more. Successful technicians are highly motivated and excel in mechanical and electrical aptitude, manual dexterity, reading comprehension, and are in good physical condition.

Job placement rate for students last year was 90% with average wages from \$12 to \$17 per hour. The complete Automotive Service Certificate is 1,380 hours or approximately 13 months and costs \$2,742 to complete.

Students this year have been employed at Murdock Volkswagen, Hyundai and General Motors; Discount Tire; Young Automotive Group, Toyota and Honda; Leo’s Auto Service; Master Mechanics; and Autobahn.

SLCC—Salt Lake Community College’s four-semester automotive technician program is designed to train students in both domestic and imported vehicle mechanics and repairs. It prepares students to enter into the job market as technicians skilled in all facets of automotive repair.

Prospective auto technicians should be in good physical condition, have above-average mechanical aptitude and hand-eye coordination and have problem-solving and critical thinking skills.

Upon completion of this program, graduates may find employment opportunities as automotive transmission specialists, engine performance experts, automobile air conditioning specialists, front end and brake technicians and emission control specialists. Technicians furnish their own hand tools. Employers furnish specialized test equipment and tools for servicing service units such as automatic transmissions. Skills in automotive diagnosis and repair open the doors to a multitude of jobs throughout the state and nation.

WSU—Weber State University’s automotive program partners with Ford, General Motors, Honda, Toyota, and Chrysler to train students with state-of-the-art technology. It is the only program of its kind within 1,000 miles. The first two years of the program trains students to become automotive technicians at dealerships, fleets, and aftermarket repair facilities.

Besides the various associate degree programs, the department offers a baccalaureate degree in Automotive Technology. Upon completion of the associate degree, students can continue on to the baccalaureate degree. This arrangement, frequently referred to as a two-plus-two program, allows students to continue after completing an associate degree with no loss of credit. WSU has this same pathway with community colleges, like Salt Lake Community College, which offers a two-year NATEF Certified automotive service technology degree.

Students who complete a baccalaureate degree will work in a variety of managerial positions throughout the automotive industry. Many students will be recruited by the major automotive manufacturers to work as after-sales product engineers.

Students have recently been placed at Utah Transit Authority (UTA), Young Automotive Group, Ken Garff Automotive Group, Toyota Motor Sales, Cummins, Fiat Chrysler Automobiles, and Tesla.

Pathway Student Data—Table 2 illustrates the 2016-17 student enrollment, attainment, and job placement rates at the various educational levels. An educational pathway with stackable credentials from the TCs to WSU will provide northern Utah manufacturers with a technically skilled workforce.

Programs, Certificates, and Degrees	Student Enrollment	Attainment Rates (2016-17 graduates)	Job Placement Rates
Automotive Service	BTECH 2017-18—81 high school and 23 full-time 2016-17—125 high school and 24 full-time Davis Tech-132 OWTC-76	BTECH-100 Davis Tech-81% OWTC-31% grad, 71% completers	BTECH-90 Davis Tech-90% OWTC-97%
Associate of Science in Automotive Technology	SLCC-127 WSU-221	SLCC-89% WSU- 79%	SLCC-89% WSU- 96%
Bachelor of Science in Automotive Technology	WSU—2017-18—92 WSU—2016-17--84	WSU- 75%	WSU- 99%

Board of Regents Support—The Board of Regents will send a separate message of support.

USTC Support—Utah System of Technical Colleges will send a separate message of support.

Funding Request Items—The budget requested to support this proposal is listed in Table 3 below:

Davis Technical College – One-Time Funding Request (Two lifts to expand training space for students)	\$20,000
SWI On-Going Funding Needs	
Total SWI Annual Budget	\$290,000
The on-going budget by institution is listed below:	
Weber State University	
<i>Total WSU Budget</i>	\$190,000
1.5 faculty positions (\$145,000) at WSU Technical Coordinator – Full-Time Position (\$120,000) <ul style="list-style-type: none"> • Description <ul style="list-style-type: none"> ○ The technical coordinator will be a liaison between WSU and the partnering institution. ○ The coordinator will aid in the development of curriculum, equipment 	

<ul style="list-style-type: none"> ○ advisement, and other technical needs of the partner ○ The technical coordinator will also provide technical training to students in the automotive program at WSU • Duties <ul style="list-style-type: none"> ○ Board member on partners advisory board ○ Coordinates and assists in updates to curriculum ○ Supports outreach events for the partner ○ Provides technical support <p>Pathways Coordinator – Part-Time Position (\$25,000)</p> <ul style="list-style-type: none"> • Description <ul style="list-style-type: none"> ○ The pathways coordinator will work with students moving through the different pathways. ○ The coordinator will work with the partnering institutions on any course changes, transfer articulations, and general advisement • Duties <ul style="list-style-type: none"> ○ Coordinates and assists course changes ○ Maintain the transfer articulation agreements ○ Supports outreach events for the partner ○ Provides advisement 	
<p>Equipment: The following detailed equipment list will enable WSU Automotive Department to build two supporting lab environments for students.</p> <p>Advance Powertrains Lab</p> <ul style="list-style-type: none"> • The first lab will focus on advanced powertrains in the automotive industry. • It will consist of vehicles and components that use electric and hybrid propulsion systems. • It will also support any future technologies associated with advanced powertrains <p>Autonomous Vehicle Safety and Convenience Systems Lab</p> <ul style="list-style-type: none"> • The second lab will focus on advanced automated vehicle systems. • It will consist of vehicles, components, and software that support vehicles with automation and safety systems. • The lab will provide a testing platform for undergraduate research in self-driving technologies <p>Year 1 – 2018-2019 – (\$190,000)</p> <ul style="list-style-type: none"> • CXC Oculus Rift Driving Simulator (\$80,000) <ul style="list-style-type: none"> ○ Virtual reality driving simulator with eye and hand tracking. ○ Utilized for researching self-driving systems and algorithms. • Tesla Model S with Autopilot 2.0 (\$73,000) <ul style="list-style-type: none"> ○ The Tesla Model S has a battery electric vehicle that would be used in the advanced powertrains lab ○ The Tesla Model S has an advanced autopilot system that has a significant amount of self-driving technologies that would be used in the Autonomous Vehicle Lab • Third Generation Toyota Prius (\$12,000) <ul style="list-style-type: none"> ○ The Toyota Prius is the most common hybrid vehicle on the road in the 	

<ul style="list-style-type: none"> ○ US ○ This generation of Prius has hybrid technologies that would be used in the Advanced Powertrains Lab ○ This vehicle will be used as lab equipment. It would not be licensed or driven outside of WSU property • Salary -- Pathways Coordinator (\$25,000) <ul style="list-style-type: none"> ○ The pathways coordinator position would begin the first year ○ The initial duties would be to help setup and update the transfer articulation agreements between the partners <p>Year 2 – 2019-2020 – (\$190,000)</p> <ul style="list-style-type: none"> • Salary – Technical Coordinator – (\$120,000) <ul style="list-style-type: none"> ○ The technical Coordinator position will start the second year, once the programs articulations have been established • Salary – Pathways Coordinator – (\$25,000) <ul style="list-style-type: none"> ○ Continue duties assigned • Ford Fusion Plug in Hybrid (\$36,500) <ul style="list-style-type: none"> ○ This Ford vehicle has a technology package that varies from the other advanced powertrain lab ○ The vehicle would be used in the Advanced Powertrains Lab ○ This vehicle will be used as lab equipment. It would not be licensed or driven outside of WSU property • Second Generation Toyota Prius (\$8,500) <ul style="list-style-type: none"> ○ The Toyota Prius is the most common hybrid vehicle on the road in the US ○ This generation of Prius has hybrid technologies that would be used in the Advanced Powertrains Lab ○ This vehicle will be used as lab equipment. It would not be licensed or driven outside of WSU property <p>Year 3 – 2020-2021 -- (\$190,000)</p> <ul style="list-style-type: none"> • Salary – Technical Coordinator – (\$120,000) <ul style="list-style-type: none"> ○ Continue duties assigned • Salary – Pathways Coordinator – (\$25,000) <ul style="list-style-type: none"> ○ Continue duties assigned • Torque and HP Evaluation Dynamometer (\$45,000) <ul style="list-style-type: none"> ○ The dynamometer is used for various testing of vehicle powertrains. ○ The dynamometer would be used in the advanced powertrains and Autonomous Vehicle Labs. 	
Salt Lake Community College	\$25,000
<p>Year 1 – Automotive Vehicle Lift - \$7,000 Hunter Tire Balancing Machine - \$5,000 Vehicle with Electronic Steering - \$13,000</p> <p>Year 2 – Automotive Vehicle Lift - \$7,000 Toyota Scan Tool - \$3,000 Jeep Vehicle - \$15,000</p>	

<p>Year 3 – Automotive Vehicle Lift - \$7,000 Jeep Scan Tool - \$3,000 Electric Hybrid Vehicle - \$15,000</p>	
Bridgerland Technical College	\$25,000
<p>Year 1 – 2018-2019 - \$25,000 MLR/ASE online curriculum subscription Computers for student access Course Online Development Lab Equipment Instructor Training</p> <p>Year 2 – 2019-2020 - \$25,000 MLR/ASE online curriculum subscription Computers for student access Course Online Development Lab Equipment Instructor Training</p> <p>Year 3 – 2020-2021 - \$25,000 MLR/ASE online curriculum Subscription Computers for student access Course Online Development Lab Equipment Instructor Training</p>	
Davis Technical College	\$25,000
<p>Year 1 – Electrical trainer to provide expanded training to students.</p> <p>Year 2 – Partial salary for additional instructor who will also work with area high schools to increase pipeline.</p> <p>Year 3 – Partial salary for additional instructor who will also work with area high schools to increase pipeline.</p>	
Ogden-Weber Technical College	\$25,000
<p>Year 1 – Academic Success Advisor (less than full time) to coordinate with high school automotive programs for pipeline increase, guide students through technical college enrollment process, cultivate employer sites, match students to employers for placement and continued path to WSU’s Associate of Applied Science in Automotive Technology.</p> <p>Year 2 – Academic Success Advisor</p> <p>Year 3 – Academic Success Advisor</p>	<p>\$23,700 \$1,550</p> <p>\$24,393</p> <p>\$25,125</p>