

WASHINGTON AEROSPACE & ADVANCED MATERIALS MANUFACTURING PIPELINE ADVISORY COMMITTEE

State Board for Community and Technical Colleges Advisory Committee Meeting

- Wednesday, November 1, 2023; 1:00-3:00pm
- Statutory Authority Laws of 2012, Chapter 28B.50.903 Revised Code of Washington

TOUR: 1:00 PM In person attendance:
Welding: **Building B, Room B311**
Bates Technical College, South Campus
2201 S. 78th Tacoma, WA 98409

MEETING: 2:00 PM
Business Meeting: **Building E, Room E101**
Hybrid/Zoom Meeting Link: <https://us02web.zoom.us/j/87504349260>

Advisory Committee Meeting Agenda		
Time	Item	
1:00 p.m.	Call to Order, Welcome and Introductions <i>Ben Hempstead, Chair</i> Bates Technical College - South Campus <i>Yifan Sun, Dean of Workforce</i> <ul style="list-style-type: none"> • Welding Department Tour 	
2:00 p.m.	Call to Order - Room # <ul style="list-style-type: none"> • Welcome Zoom participants • Adopt Minutes, June 7, 2023 minutes <ul style="list-style-type: none"> ○ <i>Call for correspondence to be entered into the record</i> ○ <i>Are there members of the public wishing to make public comments?</i> <i>(If so, the public comment period will be at 2:55 p.m.)</i> 	
2:10 p.m.	Reports: <ul style="list-style-type: none"> • Aerospace High Demand 1000 FTES Redistribution Funding Opportunity <ul style="list-style-type: none"> ○ FY23-24 Permanent Allocation FTES (page 7) ○ FY24 Available funding as a result of redistribution: <ul style="list-style-type: none"> ■ \$728,000 = 91 FTES ○ Eligible Programs: <ul style="list-style-type: none"> ■ <i>Aircraft Mechanics and Service Technicians, Avionics, Electrical Assemblers, Electronics/Automation, Information Security Analysts, Machining, Maintenance Mechanic/Industrial Technicians, Manufacturing Engineering and Planning, Pilot</i> 	

	<p style="text-align: center;"><i>Training, Robotics/Pneumatics, Sheet Metal/Welding, Supervisors of Transportation and Material Moving Workers, Tooling, Unmanned Aerial Systems</i></p> <ul style="list-style-type: none"> ○ Applicant Summary: <ul style="list-style-type: none"> ■ Funding opportunity closed October 19, 2023 ■ 9 Community and Technical College submissions ■ 13 total applications ■ Funding request: \$1,444,764.00 ■ Applicant Program Areas: <ul style="list-style-type: none"> ● Machining - 3 applications ● Engineering - 4 applications <ul style="list-style-type: none"> ○ Mechatronics Engineering ○ Manufacturing Engineering ○ Expansion of Engineering programs (2) ● Logistics/Supply Chain - 1 application ● UAV (Uncrewed Aerial Vehicle) - 1 application ● Aerospace Assembly - 1 application ● Welding - 1 application ● Electronics/Automation - 1 application ● Hydraulics and Pneumatics Automation - 1 application ○ Review Committee <ul style="list-style-type: none"> ■ Committee meeting date: October 27, 2023 ■ Recommended applications are in fiscal review ● SBCTC Workforce Data <ul style="list-style-type: none"> ○ Workforce student headcount is up 5 percent ○ Prelim headcount enrollment across the system is up 8.1 percent ○ Prelim Full-time Equivalent (FTE) Enrollment is up 8.4 percent ○ State-funded FTE is up 6.1 percent <ul style="list-style-type: none"> ■ Much of the system growth is from Basic Education for Adults students, with a headcount enrollment increase of 19.3 percent (Intent D) ● Aerospace High Demand Enrollment <ul style="list-style-type: none"> ○ Enrollment is relatively flat for prelim-enrollment (10 day) ○ Aerospace 1000 Comparison Data FY22 vs FY23 (page 8) ● SBCTC Directors Report <ul style="list-style-type: none"> ○ Legislative Proposals for FY24 ○ New Degrees: Computer Science Degree ● Center of Excellence - Director Position 	
2:30 p.m.	<p>Industry Round Table - Questions/Discussion</p> <ul style="list-style-type: none"> ● What key components of the hiring process (interview, hiring prep, job soft skills) do companies see as lacking with current candidates? ● What should be trained to upscale/re-skill workers to prepare for the work environment? ● How does the desperate need to hire and the high turnover rate impact employee integrity and parts/service security? There have been a number of quality and security issues in our industry lately. Safran CEO can't quantify fake parts scandal rocking airlines Fortune 	

2:50 p.m.	<p>2023-2024 Meetings</p> <ol style="list-style-type: none"> 1. Next Meeting Winter 2024 - February 28, 2024 <ol style="list-style-type: none"> a. Time: 1:00 – 3:00 pm b. Location: Zoom https://us02web.zoom.us/j/84510274845 (<i>Remote Only</i>) 2. Spring 2024 - May 15, 2024 <ol style="list-style-type: none"> a. Time: 1:00 – 3:00 pm b. Mode: In-Person c. Location: To Be Determined 	
<i>Public comment period, if any – 2:55 p.m.</i>		
3:00 p.m.	Adjourn	Chair



WASHINGTON AEROSPACE & ADVANCED MATERIALS MANUFACTURING PIPELINE ADVISORY COMMITTEE

State Board for Community and Technical Colleges Online Meeting

Advisory Committee Meeting: Wednesday, June 7, 2023; 1:00-3:00pm

Statutory Authority Laws of 2012, Chapter 28B.50.903 Revised Code of Washington

Zoom Meeting Link: <https://us02web.zoom.us/j/83847496468>

Advisory Committee Meeting Agenda
Item
Call to Order, Welcome and Introductions <i>Ben Hempstead, Chair</i> Adopt Minutes, March 1, 2023 minutes <ul style="list-style-type: none">● Motion moved to adopt the minutes – Justing McCaffrey● Motion seconded – Robin Toth● Minutes adopted
<ul style="list-style-type: none">● Aerospace 1000 Data Snapshot (Historical and current work)● The applications opened in Spring of 2014 and when the funding was set up, we had 41 initial applicants from the community and technical colleges.● The categories were very broad and were; aircraft, mechanic machining design, electronics, manufacturing maintenance, plastics, and sheet metal (there is no order of priority)● First 1,000 FTEs went out in fiscal year 2015 (each FTE totaling out at a little less than \$8,000 when we started out)<ul style="list-style-type: none">○ If 4 FTEs are requested at about \$8,000 per FTE; that program is allocated around \$32,000 for them to spend on whatever they have provided in the application.● In 2018 we reopened application for the college even if they had not met the FTE requirement in the past. This was the start of the redistribution policy, and 347 FTEs were returned for redistribution in 2018.● Also in 2018, 15 programs met the program criteria and became permanently funded through the Aerospace 1,000 FTE. Permanent funding means they do not go up for redistribution but are still monitored.● As of May 2023, we have 35 active aerospace, high demand FTEs per program, that is 585 permanent FTEs.<ul style="list-style-type: none">○ 19 permanent programs

- 415 probationary FTEs (they are reporting on how the programs grow and show sustainability for the future; if the target is not met, then the redistribution program comes in and equal to the difference of the target and what was allocated.)
- The programs consistently meet the 1,000 FTE grant that was originally set out for.

Aerospace 1000 FTE Upcoming funding opportunities

- Redistribution Policy and impacts
 - The redistribution program was suspended for FY21 and FY22 due to pandemic recovery efforts.
 - Probationary FTEs - they are reporting on how the programs grow and show sustainability for the future; if target is not met, then redistribution occurs. Redistribution is equal to the difference of the target and what was allocated.
 - Example: If 4 FTEs (\$32,000) were allocated to the program and only 2 FTEs (\$16,000) were fulfilled, SCBC would take back the remaining 2 FTEs and redistribute them to other programs that comply and are in similar positions.
 - We are anticipating around 160 FTEs to come back to the State Board and opening the grant application in August and closing the applications in September.
 - Currently in Workforce, we are looking to streamline some of our processes and the Aerospace 1,000 FTE process is one of them. We are looking for input from colleges and stakeholders on their thoughts prior to an application being released.
- Are there additions to the Eligible Programs list?
 - We are currently holding colleges accountable for 75% of their total enrollment targets; and this applies to programs across the board, not just Aerospace 1,000.
 - In FY24 we are holding programs accountable for 90% of their enrollment targets.
 - In FY25 we will return to holding colleges to 100% of their enrollment targets.

Director's Report

On behalf of Paul Francis, Executive Director SBCTC, Marie Bruin, Director, Workforce Education provided a system update.

Industry Roundtable

1. What other industry skills are transferable to viable workforce programs?
 - a Electrical assembly, electrician, HVAC, cybersecurity as it relates to the aerospace industry.
 - b Electronics and automation are a rising need for employers.
 - c Mechanics with equipment for assembling different products for an aircraft while taking all the wiring that needs to be done into account.
2. Are you aware of industry recognized credentials that are in demand from employers?
 - a Quality control and non-destructive testing; to include quality control inspection.
 - b Knowledge on contracts and on 3D printing, not sure if 3D printing (ex. Prototyping molds for parts) is considered the way forward but should be considered in Workforce Education classes.
 - c Contract supply chain (logistics) and compliance
3. How is the demand for supply chain expertise being met by our programs (specifically Aerospace supply chain)?
 - a There is a large demand on skilled workers that can request a quote, write a competent contract, and get the supply chain together, and all this while not outsourcing to out of state workers or out of country workers.
4. What is the current demand for composites (hand layup work, quality differences vs Marine, and needs for repair. Are there recognized credentials our programs should offer)?
 - a There are conversations happening around short certificates and what they can offer for whatever credential that is in need for the shorter-term training.

- b Would the current industry accept and recognize the credentials and short-term certifications? At this time, employers are not necessarily screening for specific credentials, but it is a conversation that has started to spark interest on the west coast now.

2023-2024 Meetings

1. Fall 2023 - November 1, 2023
 - a. Time: 1:00 – 3:00 pm
 - b. Mode: In-Person
 - c. Location: Bates Technical College – South Campus, 2201 S. 78th, Tacoma WA 98409
2. Winter 2024 - February 28, 2024
 - a. Time: 1:00 – 3:00 pm
 - b. Location: Zoom (<https://us02web.zoom.us/j/84510274845>)
3. Spring 2024 - May 15, 2024
 - a. Time: 1:00 – 3:00 pm
 - b. Mode: In-Person
 - c. Location: To Be Determined

Adjourned

FY24 - Permanently Allocated FTES

Aerospace High Demand 1000 FTES		
College	Program Name	FY24 Base Allocation/FTES
Bates	Welding	11
Bellingham Tech	Aero. Engineering	50
Bellingham Tech	Precision Machining	27
Bellingham Tech	Welding	24
Bellingham Tech	Machining Program Expansion	3
Bellingham Tech	Mechatronics	11
Big Bend	AMT Program	2
Clover Park	Avionics	20
Clover Park	Material Science	53
Clover Park	Mechatronics Technician	24
Edmonds	Engineering Technology	30
Edmonds	Engineering Transfer	35
Everett	Machine Tool Tech.	108
Everett	Engineering	35
Everett	Aircraft Mechanic	42
Green River	Aero. Engineering	4
Green River	Mechatronics	17
Lake Washington	Engineering Transfer	26
Lake Washington	Welding	12
North Seattle	Avionics/Electronics	40
North Seattle	Electronics	3
Olympic	Engineering Technology	45
Renton Tech	Mechatronics	9
Renton Tech	Precision Machining	39
Shoreline	Aero. Machining	20
Skagit	Composites	10
Skagit	Manufacturing Technology stackable	17
South Puget Sound	Machining Technologies	15
South Seattle	AMT Program	42
Spokane	AMT and CNC	40
Tacoma	Engineering	21
Wenatchee Valley	Machining	20
Whatcom	Engineering Transfer	54
	Total	909

Enrollment FTES – Comparing FY22 vs FY23

College	Aero_1000_program_permanent	Fall 22 Prelim	Fall 2022 Actual	Fall 2023 Prelim
Bates	Welding	54	54	52
	Total	54	54	52
Bellingham	Aero. Engineering	102	103	71
	Mechatronics	24	24	15
	Precision Machining	37	37	24
	Welding	75	74	77
	Total	239	238	186
Big Bend	AMT Program	57	56	57
	Total	57	56	57
Clover Park	Avionics	9	8	20
	Material Science	25	27	19
	Mechatronics Technician	38	31	33
	Total	72	66	71
Edmonds	Engineering Technology	7	7	4
	Engineering Transfer	7	7	5
	Total	14	14	9
Everett	Aircraft Mechanic (AMT) & Avionics	105	105	104
	Engineering	226	227	233
	Machine Tool Tech.	41	43	55
	Total	372	375	392
Green River	Aero. Engineering	48	48	62
	Mechatronics	21	22	24
	Total	69	69	86
Lake Washington	Engineering Transfer	32	30	42
	Welding	71	68	60
	Total	103	98	102
Olympic	Engineering Technology	19	19	15
	Total	19	19	15
Renton	Mechatronics	13	13	20
	Precision Machining	11	12	19
	Total	24	25	39
Seattle North	Avionics/Electronics	32	33	40
	Electronics	18	18	8
	Total	50	51	48
Seattle South	AMT Program	146	148	156
	Total	146	148	156
Shoreline	Aero. Machining	53	43	37
	Total	53	43	37
Skagit Valley	Manufacturing Technology	5	4	4
	Total	5	4	4
South Puget Sound	Computerized Manufacturing	14	13	12
	Total	14	13	12
Spokane	AMT and CNC	133	121	139
	Total	133	121	139
Tacoma	Engineering	170	169	151
	Total	170	169	151
Wenatchee Valley	Machining	7	7	8
	Total	7	7	8
Whatcom	Engineering Transfer	71	73	83
	Total	71	73	83
Grand Total		1,671	1,644	1,648

**BATES TECHNICAL COLLEGE
TEMPORARY VISITOR PARKING PERMIT**

PERMIT MUST BE PLACED ON VEHICLE DASHBOARD, FACE UP	
MEETING: WAAMMP Advisory Meeting	DATE: 11/01/2023
START TIME: 1200	END TIME: 1600
CAMPUS: South Campus	LOCATION: Building E, room E101 A&B
ISSUING DEPARTMENT: Campus Safety	INITIALS & EXT: RRR 7111

TEMPORARY VISITOR PARKING PERMIT ONLY VALID IN VISITOR OR GENERAL PARKING SPACES

VALID ONLY FOR DATES LISTED ABOVE

NOT VALID FOR STUDENT USE

NOT VALID ON TACOMA CITY STREETS

UNAUTHORIZED USE OF PERMIT MAY RESULT IN VEHICLE CITATION AND/OR TOWING



Campus Map - Bates Technical College South Campus

BATES TECHNICAL COLLEGE SOUTH CAMPUS PARKING MAP*

- GENERAL
- EMPLOYEES
- VISITORS
- ADA ACCESSIBLE
- NO PARKING

SOUTH CAMPUS

2201 South 78th Street, Tacoma 98409

Driving:

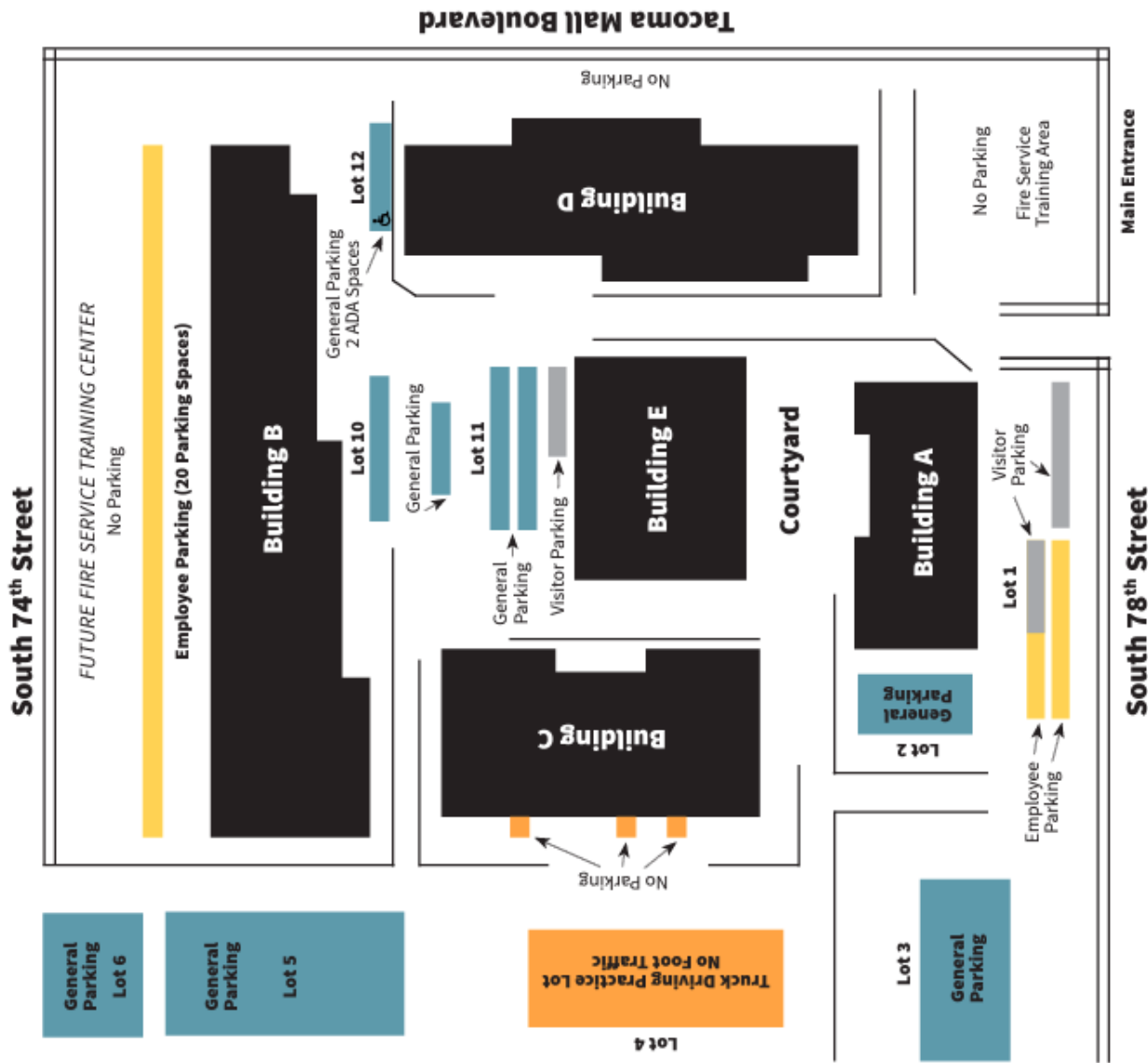
Traveling North on I-5: Take exit 128, turn left onto S. Hosmer, turn left onto S. 84th Street, turn right onto Tacoma Mall Boulevard, turn left onto S. 78th Street, turn right into the college at 2201 S. 78th Street.

Traveling South on I-5: Take exit 129 onto Tacoma Mall Boulevard, turn left and go to 78th Street, turn right into the college at 2201 S. 78th Street.

Parking:

There are designated student, staff and visitor parking areas. This parking permit can be used only in student or visitor designated locations.

Updated: 9/21/2023



* Map subject to change.

