

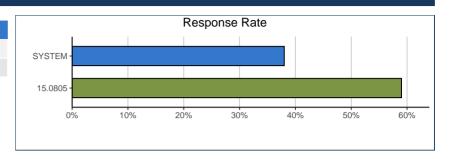
### B.C. Baccalaureate Outcomes 2022 Survey of 2020 Baccalaureate Graduates

SYSTEM 15.0805

Detailed Summary of Survey Results
All Institutions
15.0805: Mechanical engineering/mechanical technology/technician

#### RESPONSE RATE

Survey Response Rate:	15.0805		SYSTEM	
Baccalaureate Graduates Survey Cohort	32	100%	24,752	100%
Survey Respondents and Response Rate	19	59%	9,423	38%

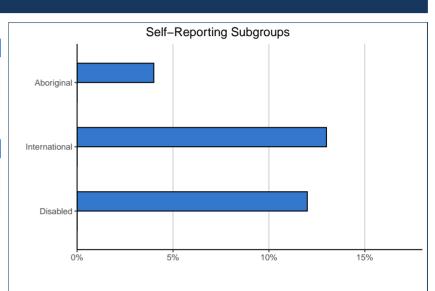


### DEMOGRAPHIC INFORMATION

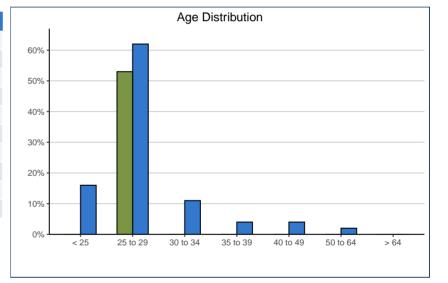
Self-Reporting Subgroups:	15.0805		SYSTEM	
Disabled	~	~	1,082	12%
International	~	~	1,205	13%
Aboriginal	0	0%	357	4%

Gender:*	15.0805		SYSTEM	
Male	~	~	3,744	40%
Female	~	~	5,675	60%
Total	19	100%	9,419	100%

<sup>\*</sup>Due to zero or low counts, institution-reported "Non-binary" demographic data are not included.

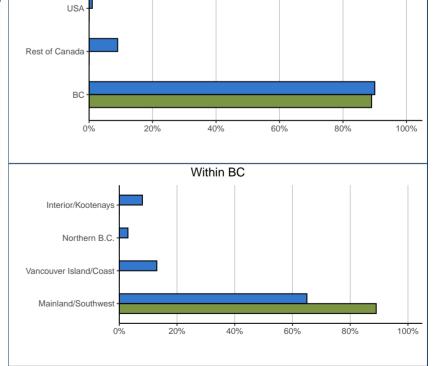


Age (at time of survey):	15.0805		SYSTEM	
< 25	~	~	1,496	16%
25 to 29	10	53%	5,860	62%
30 to 34	~	~	1,035	11%
35 to 39	~	~	421	4%
40 to 49	~	~	397	4%
50 to 64	0	0%	186	2%
> 64	0	0%	22	0%
Total	19	100%	9,417	100%
Median Age	28		26	
Average (mean) Age	29		28	



Place of Residence

Place of Residence (at time of survey):	15	15.0805		SYSTEM	
BC - Mainland/Southwest	16	16 89%		65%	
BC - Vancouver Island/Coast	0	0%	1,112	13%	
BC – Northern B.C.	0	0%	270	3%	
BC – Interior/Kootenays	0	0%	672	8%	
BC Subtotal	16	89%	7,526	90%	
Canada – Alberta	0	0%	343	4%	
Canada – Ontario	0	0%	280	3%	
Canada - Other	~	~	176	2%	
U.S.A.	~	~	80	1%	
Non-BC Subtotal	~	~	879	10%	
Total	~	~	8,405	100%	





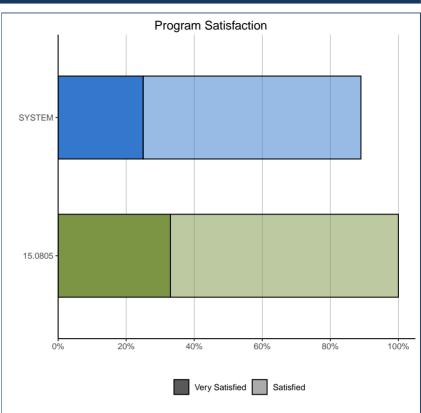


#### **EDUCATION EVALUATION AND SKILL DEVELOPMENT**

Program Satisfaction:	15.0805		SYSTEM	
Very Satisfied	6	33%	2,332	25%
Satisfied	12	67%	5,914	64%
Dissatisfied	0	0%	831	9%
Very Dissatisfied	0	0%	188	2%
Total	18	100%	9,265	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	15.0805		SYSTEM	
Very Useful	8	50%	3,011	38%
Somewhat Useful	7	44%	3,664	47%
Not Very Useful	1	6%	886	11%
Not at All Useful	0	0%	283	4%
Total	16	100%	7,844	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	15.	15.0805		SYSTEM		
Yes	5	26%	902	10%		
No	14	74%	8,298	90%		



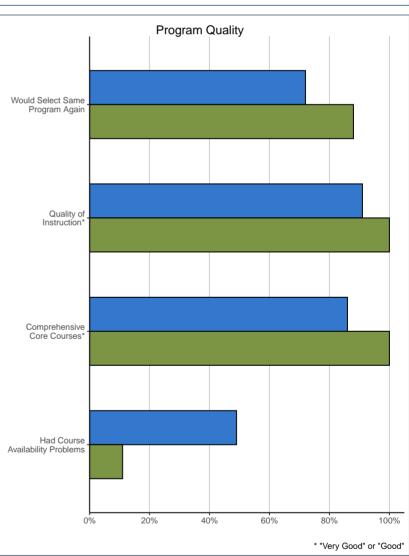
Would select the same program again:	15.0805		SYSTEM	
Yes	15	88%	5,963	72%
No	2	12%	2,334	28%

Quality of Instruction:	15.0805		SYSTEM	
Very Good	6	33%	2,498	27%
Good	12	67%	6,007	64%
Poor	0	0%	685	7%
Very Poor	0	0%	131	1%
Total	18	100%	9.321	100%

Comprehensiveness of Core Courses:	15.0805		SYSTEM	
Very Good	11	61%	2,303	25%
Good	7	39%	5,649	61%
Poor	0	0%	1,073	12%
Very Poor	0	0%	172	2%
Total	18	100%	9,197	100%

			2112	
Course Availability:	15.0	0805	SYSTEM	
Encountered course availability problems	2	11%	4,485	49%

Financial Constraints:	15.0805		SYS	TEM
Had to interrupt studies for financial reasons	0	0%	987	11%
Had to take program part-time for financial reasons	0	0%	1,629	18%

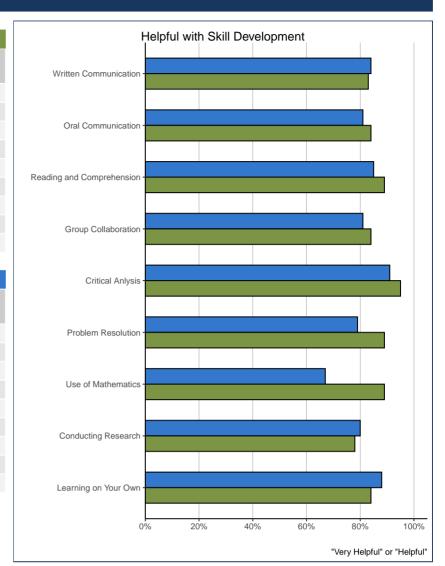




#### SKILL DEVELOPMENT

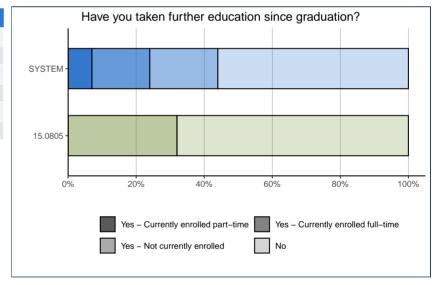
			15.0805		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	33%	50%	11%	6%	18
Oral Communication	17%	67%	11%	6%	18
Reading and Comprehension	28%	61%	11%	0%	18
Group Collaboration	42%	42%	16%	0%	19
Critical Anlysis	58%	37%	5%	0%	19
Problem Resolution	68%	21%	11%	0%	19
Use of Mathematics	42%	47%	11%	0%	19
Conducting Research	39%	39%	22%	0%	18
Learning on Your Own	63%	21%	16%	0%	19

			SYSTEM		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	27%	57%	14%	3%	9,025
Oral Communication	24%	57%	17%	3%	9,114
Reading and Comprehension	28%	57%	13%	2%	9,119
Group Collaboration	28%	53%	17%	3%	9,187
Critical Anlysis	41%	50%	8%	2%	9,297
Problem Resolution	23%	56%	17%	3%	9,057
Use of Mathematics	20%	47%	25%	9%	7,165
Conducting Research	30%	50%	17%	4%	8,871
Learning on Your Own	38%	50%	10%	2%	9,189

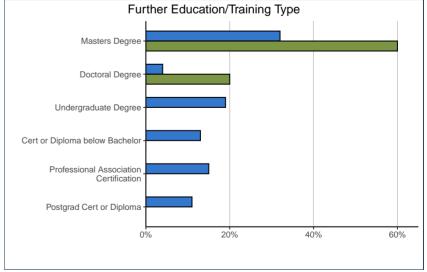


#### **FURTHER EDUCATION**

Took further education since 2020 graduation:	15.0805		SYS	TEM
Yes	6	32%	4,119	44%
Not currently enrolled	6	32%	1,831	20%
Currently enrolled full-time	0	0%	1,602	17%
Currently enrolled part-time	0	0%	637	7%
No	13	68%	5,244	56%
Total	19	100%	9,363	100%



Type of Formal Post-Secondary Education:	15.0805		SYSTEM	
Masters Degree	3	60%	1,307	32%
Doctoral Degree	1	20%	167	4%
Another Undergraduate Degree	0	0%	789	19%
Certificate or Diploma below Bachelor level	0	0%	527	13%
Professional Association Certification	0	0%	603	15%
Postgraduate Certificate or Diploma	0	0%	431	11%
Other	1	20%	236	6%
Total	5	100%	4,060	100%



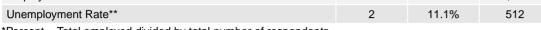




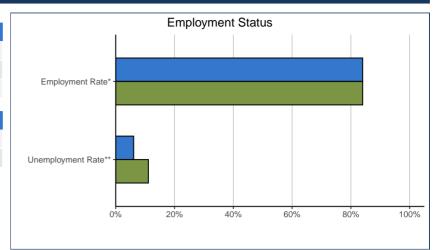
#### **EMPLOYMENT**

6.1%

Labour Fource Status:	15.0805		SYSTEM			
In Labour Force (working or seeking work)	18	95%	8,412	91%		
Not in Labour Force	1	5%	857	9%		
Total	19	100%	9,269	100%		
Employment:	15.0805		15.0805		SYS	TEM
Employment Rate*	16	84%	7,900	84%		



<sup>\*</sup>Percent = Total employed divided by total number of respondents

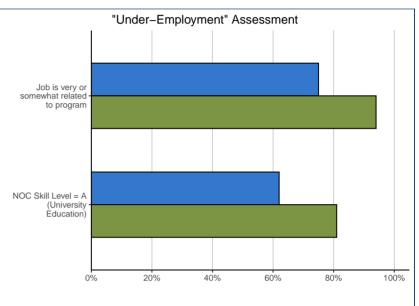


Status of Graduates NOT in Labour Force:	15.0805		SYSTEM	
Attending School FT	0	0%	597	70%
Attending School PT	0	0%	23	3%
Other	1	100%	237	28%
Total NOT in Labour Force	1	100%	857	100%

Primary Employment Type:	15.0805		SYS	TEM
Paid worker	16	100%	7,394	94%
Self-employed	0	0%	493	6%
Total	16	100%	7,887	100%

Job Characteristics:	15.0805		SYS	TEM
I hold more than one job*	3	19%	1,463	19%
My main job is full-time (>= 30 hours per week)**	16	100%	6,655	89%

<sup>\*</sup>Of total Employed



How related is your main job to your program?	15.0805		SYS	TEM
Very Related	6	38%	3,386	43%
Somewhat Related	9	56%	2,530	32%
Not Very Related	1	6%	1,013	13%
Not at All Related	0	0%	954	12%
Total	16	100%	7,883	100%

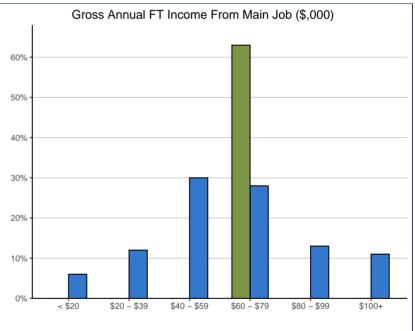
"Under-employment" Assessment:	15.0805		SYSTEM	
Job is very or somewhat related to program	15	94%	5,916	75%
NOC Skill Level = A (University Education)*	13	81%	4,631	62%

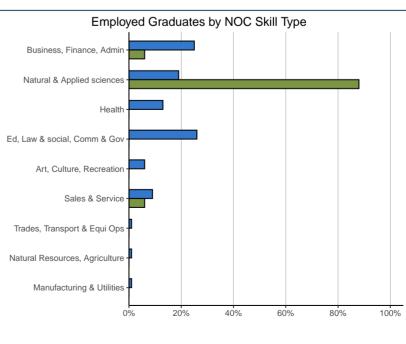
<sup>\*</sup>Of total valid responses

Gross Annual Income from Main Job:*	15.0	15.0805		TEM
Less than \$20,000	0	0%	328	6%
\$20,000 to \$39,999	0	0%	725	12%
\$40,000 to \$59,999	0	0%	1,773	30%
\$60,000 to \$79,999	10	63%	1,673	28%
\$80,000 to \$99,999	~	~	799	13%
\$100,000 and Above	~	~	659	11%
Total	16	100%	5,957	100%
Median Annual Income (full-time) (\$)	74,081		63,000	
Average Annual Income (full-time) (\$)	78,585		70,455	

<sup>\*</sup>Where data provided

NOC Skill Type of Main Job:	15.0805		SYSTEM	
Business, finance & administration	1	6%	1,844	25%
Natural & applied sciences & related	14	88%	1,422	19%
Health	0	0%	933	13%
Education, law and social, community & government	0	0%	1,946	26%
Art, culture, recreation & sport	0	0%	438	6%
Sales & service	1	6%	658	9%
Trades, transport & equipment operators & related	0	0%	104	1%
Natural resources, agriculture & related production	0	0%	42	1%
Manufacturing & utilities	0	0%	39	1%
Total	16	100%	7,426	100%





<sup>\*\*</sup>Percent = Total unemployed divided by total number in Labour Force

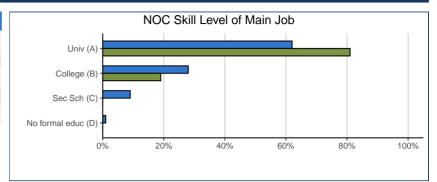
<sup>\*\*</sup>Of those who provided data on hours/week worked



SYSTEM 15.0805

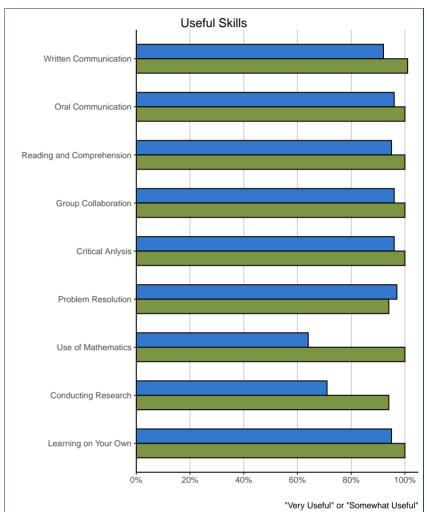
### EMPLOYMENT, continued

NOC Skill Level of Main Job:	15.0805		SYSTEM	
University education 13		81%	4,631	62%
B. College education/trade apprenticeship	3	19%	2,082	28%
C. Secondary school + job-specific training	0	0%	647	9%
D. No formal education	0	0%	86	1%
Total	16	100%	7,446	100%



	15.0805				
How useful are the following skills and abilities in doing your main job?	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	63%	38%	0%	0%	16
Oral Communication	67%	33%	0%	0%	15
Reading and Comprehension	69%	31%	0%	0%	16
Group Collaboration	69%	31%	0%	0%	16
Critical Anlysis	75%	25%	0%	0%	16
Problem Resolution	81%	13%	6%	0%	16
Use of Mathematics	44%	56%	0%	0%	16
Conducting Research	56%	38%	0%	6%	16
Learning on Your Own	75%	25%	0%	0%	16

	SYSTEM				
How useful are the following skills and abilities in doing your main job?	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	67%	25%	5%	3%	7,839
Oral Communication	75%	21%	3%	1%	7,837
Reading and Comprehension	70%	25%	4%	1%	7,836
Group Collaboration	76%	20%	3%	1%	7,841
Critical Anlysis	74%	22%	3%	1%	7,838
Problem Resolution	77%	20%	2%	1%	7,833
Use of Mathematics	28%	36%	21%	15%	7,634
Conducting Research	36%	35%	17%	12%	7,717
Learning on Your Own	68%	27%	3%	2%	7,819



Top 10 Full-time Occupations of 15.0805 Graduates:		15.0805	
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2132	A	Mechanical engineers	69%
*			
*			
*			
*			
*			
*			
*			
*			
*			

<sup>\*</sup> Data not displayed where n < 5

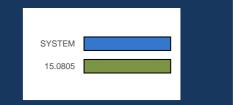
<sup>\*\*</sup> Percentages cited are of those employed

Top 10 Full-tir	Top 10 Full-time Occupations of SYSTEM Graduates:		
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
3012	A	Registered nurses and registered psychiatric nurses	6%
1111	A	Financial auditors and accountants	4%
XXXX	0	Unclassified occupations	3%
2173	A	Software engineers and designers	3%
4032	A	Elementary school and kindergarten teachers	3%
1123	A	Professional occupations in advertising, marketing and public relations	3%
4212	В	Social and community service workers	3%
2174	A	Computer programmers and interactive media developers	2%
4031	A	Secondary school teachers	2%
1221	В	Administrative officers	2%

<sup>\*</sup> Data not displayed where n < 5

<sup>\*\*</sup> Percentages cited are of those employed





#### **EDUCATION FINANCING**

Funding Sources (3 sources allowed):*	15.	15.0805		TEM
Personal savings, investments	8	8 42%		31%
Employment while studying		47%	4,716	51%
Family/Friends	11	58%	5,423	59%
Personal bank loans	2	11%	600	7%
Government student loans	7	37%	3,008	33%
Scholarships/Bursaries/Grants	2	11%	2,803	31%
Other	5	26%	1,997	22%
Total	19		9,180	

<sup>\*</sup> Percentage of respondents who identified this source

Financial Debt Incurred to Finance Bac. Ed.:*	15.0805		SYSTEM	
Incurred any form of financial debt	8	42%	4,031	44%
Incurred government-sponsored student loan debt	8	42%	3,331	36%

<sup>\*</sup> Percentage of respondents who provided data



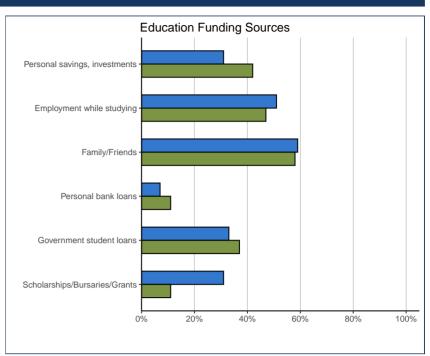
<sup>\*</sup> Includes only cases where financial debt was incurred

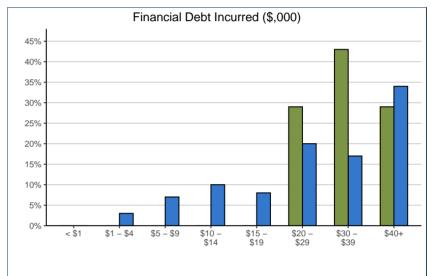


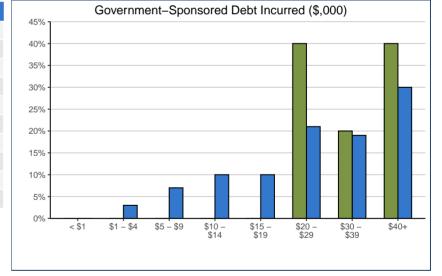
<sup>\*</sup> Includes only cases where government-sponsored debt was incurred

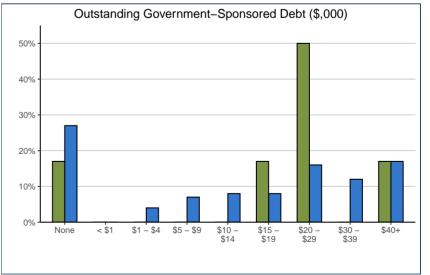


<sup>\*</sup> Includes only cases where government-sponsored debt was incurred, and valid "amount remaining" was provided









<sup>\*\*</sup> Median amounts shown are based on those who had remaining government student loan debt