

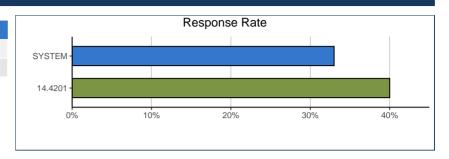
B.C. Baccalaureate Outcomes 2023 Survey of 2021 Baccalaureate Graduates

Detailed Summary of Survey Results All Institutions

14.4201: Mechatronics, robotics, and automation engineering

RESPONSE RATE

Survey Response Rate:	14.4201		SYSTEM	
Baccalaureate Graduates Survey Cohort	91	100%	25,962	100%
Survey Respondents and Response Rate	36	40%	8,603	33%

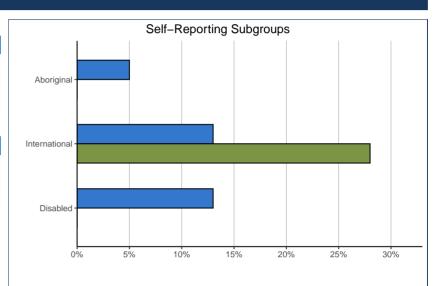


DEMOGRAPHIC INFORMATION

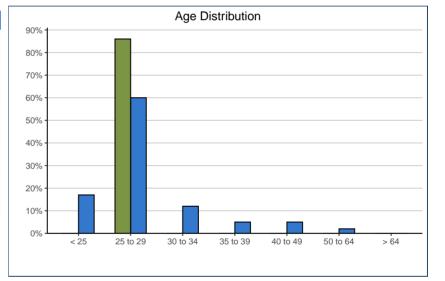
Self-Reporting Subgroups:	14.4201		SYSTEM	
Disabled	~	~	1,079	13%
International	10	28%	1,153	13%
Aboriginal	~	~	330	5%

Gender:*	14.4	1201	SYSTEM	
Male	~	~	3,534	41%
Female	~	~	5,051	59%
Total	36	100%	8,585	100%

^{*}Due to zero or low counts, institution-reported "Non-binary" demographic data are not included.

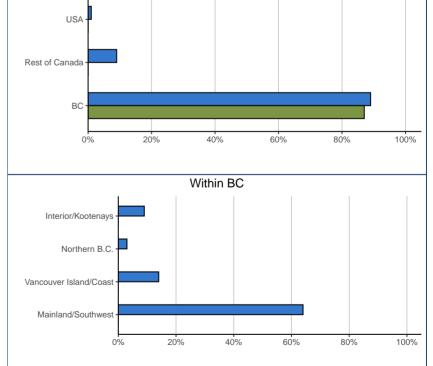


Age (at time of survey):	14.4201		SYSTEM	
< 25	~	~	1,417	17%
25 to 29	31	86%	5,150	60%
30 to 34	~	~	994	12%
35 to 39	~	~	417	5%
40 to 49	0	0%	407	5%
50 to 64	0	0%	175	2%
> 64	0	0%	26	0%
Total	36	100%	8,586	100%
Median Age	27		26	
Average (mean) Age	27		28	



Place of Residence

Place of Residence (at time of survey):	14.4201		SYSTEM	
BC – Mainland/Southwest	~ ~		4,824	64%
BC - Vancouver Island/Coast	~	~	1,065	14%
BC – Northern B.C.	0	0%	225	3%
BC – Interior/Kootenays	0	0%	673	9%
BC Subtotal	26	87%	6,787	89%
Canada – Alberta	~	~	328	4%
Canada – Ontario	~	~	239	3%
Canada – Other	0	0%	165	2%
U.S.A.	0	0%	75	1%
Non-BC Subtotal	~	~	807	11%
Total	30	100%	7,594	100%





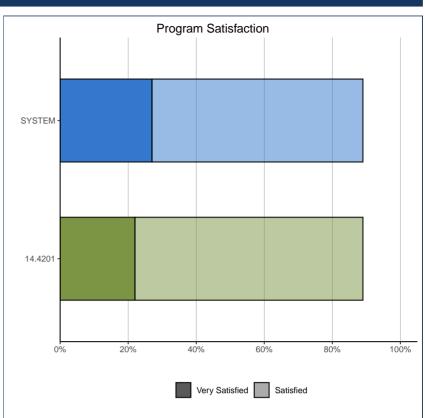


EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	14.4201		SYSTEM	
Very Satisfied	8	22%	2,262	27%
Satisfied	24	67%	5,296	62%
Dissatisfied	4	11%	740	9%
Very Dissatisfied	0	0%	184	2%
Total	36	100%	8,482	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	14.	14.4201		TEM
Very Useful	4	13%	2,704	39%
Somewhat Useful	24	77%	3,247	46%
Not Very Useful	3	10%	814	12%
Not at All Useful	0	0%	250	4%
Total	31	100%	7,015	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	14.	14.4201		SYSTEM		
Yes	2	6%	818	10%		
No	33	94%	7,545	90%		



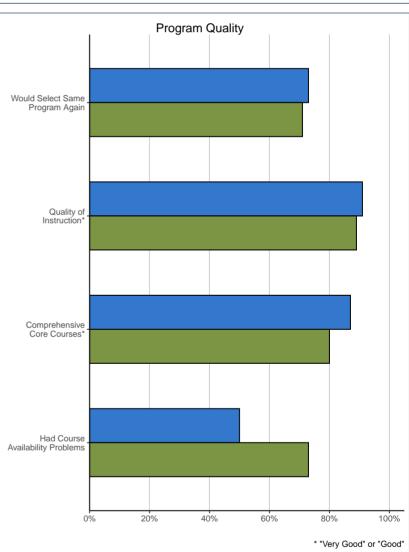
Would select the same program again:	14.4201		SYSTEM	
Yes	20	71%	5,501	73%
No	8	29%	2,019	27%

Quality of Instruction:	14.	14.4201		SYSTEM	
Very Good	4	4 11%		27%	
Good	28	78%	5,423	64%	
Poor	3	8%	649	8%	
Very Poor	1	3%	131	2%	
Total	36	100%	8.531	100%	

Comprehensiveness of Core Courses:	14.4	14.4201		TEM
Very Good	3	9%	2,206	26%
Good	24	71%	5,161	61%
Poor	7	21%	862	10%
Very Poor	0	0%	171	2%
Total	34	100%	8,400	100%

Course Availability:	14.4201		SYSTEM	
Encountered course availability problems	24	73%	4,193	50%

Financial Constraints:	14.4201		SYS	TEM
Had to interrupt studies for financial reasons	3	9%	926	11%
Had to take program part-time for financial reasons	6	17%	1,545	18%



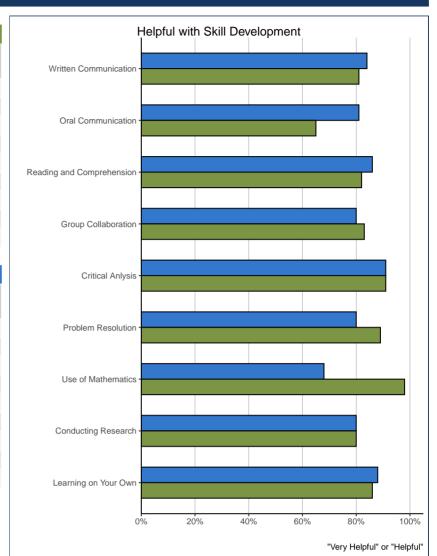




SKILL DEVELOPMENT

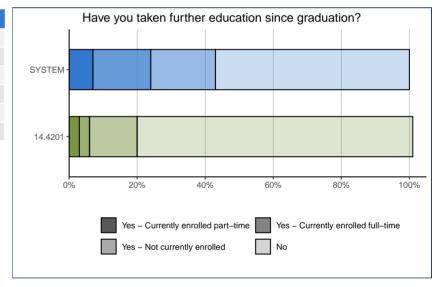
			14.4201		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	17%	64%	17%	3%	36
Oral Communication	11%	54%	34%	0%	35
Reading and Comprehension	24%	58%	18%	0%	33
Group Collaboration	25%	58%	17%	0%	36
Critical Anlysis	44%	47%	8%	0%	36
Problem Resolution	36%	53%	8%	3%	36
Use of Mathematics	49%	49%	3%	0%	35
Conducting Research	24%	56%	15%	6%	34
Learning on Your Own	39%	47%	8%	6%	36

			SYSTEM		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	27%	57%	13%	3%	8,300
Oral Communication	25%	56%	17%	3%	8,321
Reading and Comprehension	30%	56%	13%	2%	8,343
Group Collaboration	28%	52%	17%	4%	8,403
Critical Anlysis	42%	49%	7%	2%	8,503
Problem Resolution	25%	55%	17%	3%	8,293
Use of Mathematics	21%	47%	24%	8%	6,569
Conducting Research	30%	50%	17%	4%	8,092
Learning on Your Own	38%	50%	9%	3%	8,397

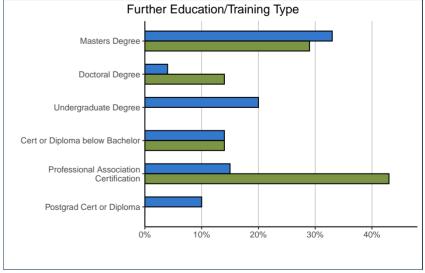


FURTHER EDUCATION

Took further education since 2021 graduation:	14.4201		SYS	TEM
Yes	7	19%	3,668	43%
Not currently enrolled	5	14%	1,580	19%
Currently enrolled full-time	1	3%	1,472	17%
Currently enrolled part-time	1	3%	565	7%
No	29	81%	4,870	57%
Total	36	100%	8,538	100%



Type of Formal Post–Secondary Education:	14.	14.4201		TEM
Masters Degree	2	29%	1,184	33%
Doctoral Degree	1	14%	153	4%
Another Undergraduate Degree	0	0%	718	20%
Certificate or Diploma below Bachelor level	1	14%	510	14%
Professional Association Certification	3	43%	538	15%
Postgraduate Certificate or Diploma	0	0%	359	10%
Other	0	0%	162	4%
Total	7	100%	3,624	100%

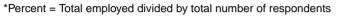




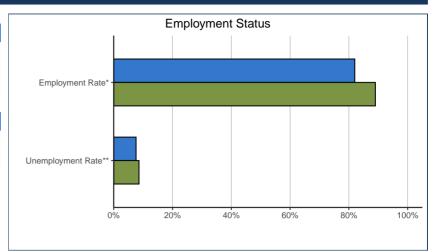


EMPLOYMENT

Labour Fource Status:	14.4201		SYS	TEM
In Labour Force (working or seeking work)	35	97%	7,643	90%
Not in Labour Force	1	3%	803	10%
Total	36	100%	8,446	100%
Employment:	14.4201		SYSTEM	
Employment Rate*	32	89%	7,062	82%
Unemployment Rate**	3	8.6%	581	7.6%



^{**}Percent = Total unemployed divided by total number in Labour Force

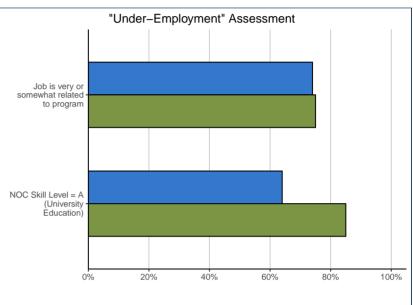


Status of Graduates NOT in Labour Force:	14.4201		SYSTEM	
Attending School FT	0	0%	565	70%
Attending School PT	0	0%	20	2%
Other	1	100%	218	27%
Total NOT in Labour Force	1	100%	803	100%

Primary Employment Type:	14.4201		01 SYSTEM	
Paid worker	32	100%	6,623	94%
Self-employed	0	0%	412	6%
Total	32	100%	7,035	100%

Job Characteristics:	14.	14.4201		TEM
I hold more than one job*	2	6%	1,243	18%
My main job is full-time (>= 30 hours per week)**	30	97%	5,922	89%

^{*}Of total Employed



How related is your main job to your program?	14.4201		SYSTEM	
Very Related	4	13%	3,081	44%
Somewhat Related	20	63%	2,151	31%
Not Very Related	6	19%	901	13%
Not at All Related	2	6%	910	13%
Total	32	100%	7,043	100%

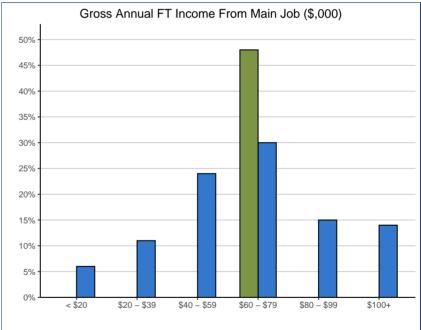
"Under-employment" Assessment:	14.4201		SYSTEM	
Job is very or somewhat related to program	24	75%	5,232	74%
NOC Skill Level = A (University Education)*	23	85%	4,148	64%

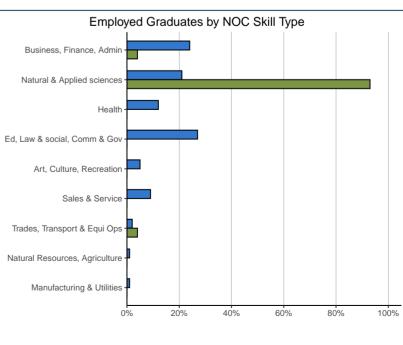
^{*}Of total valid responses

Gross Annual Income from Main Job:*	14.	14.4201		TEM
Less than \$20,000	0	0%	310	6%
\$20,000 to \$39,999	0	0%	593	11%
\$40,000 to \$59,999	~	~	1,303	24%
\$60,000 to \$79,999	10	48%	1,609	30%
\$80,000 to \$99,999	~	~	805	15%
\$100,000 and Above	~	~	729	14%
Total	21	100%	5,349	100%
Median Annual Income (full-time) (\$)	76,000		68,000	
Average Annual Income (full-time) (\$)	74,230		74,015	

^{*}Where data provided

NOC Skill Type of Main Job:	14.4201		SYSTEM	
Business, finance & administration	1	4%	1,558	24%
Natural & applied sciences & related	25	93%	1,354	21%
Health	0	0%	761	12%
Education, law and social, community & government	0	0%	1,787	27%
Art, culture, recreation & sport	0	0%	296	5%
Sales & service	0	0%	559	9%
Trades, transport & equipment operators & related	1	4%	114	2%
Natural resources, agriculture & related production	0	0%	35	1%
Manufacturing & utilities	0	0%	35	1%
Total	27	100%	6,499	100%





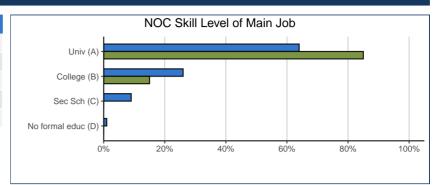
^{**}Of those who provided data on hours/week worked





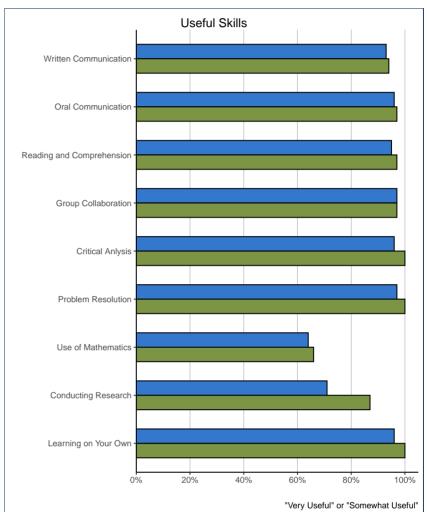
EMPLOYMENT, continued

NOC Skill Level of Main Job:	14.4201		SYSTEM	
A. University education	23	85%	4,148	64%
B. College education/trade apprenticeship	4	15%	1,713	26%
C. Secondary school + job-specific training	0	0%	564	9%
D. No formal education	0	0%	90	1%
Total	27	100%	6,515	100%



	14.4201					
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	69%	25%	6%	0%	32	
Oral Communication	75%	22%	3%	0%	32	
Reading and Comprehension	78%	19%	3%	0%	32	
Group Collaboration	81%	16%	3%	0%	32	
Critical Anlysis	81%	19%	0%	0%	32	
Problem Resolution	84%	16%	0%	0%	32	
Use of Mathematics	41%	25%	31%	3%	32	
Conducting Research	56%	31%	6%	6%	32	
Learning on Your Own	78%	22%	0%	0%	32	

	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	71%	22%	4%	2%	7,014
Oral Communication	78%	18%	2%	1%	7,014
Reading and Comprehension	72%	23%	4%	1%	7,014
Group Collaboration	79%	18%	2%	1%	7,016
Critical Anlysis	76%	20%	3%	1%	7,016
Problem Resolution	80%	17%	2%	1%	7,013
Use of Mathematics	27%	37%	22%	14%	6,834
Conducting Research	37%	34%	17%	11%	6,904
Learning on Your Own	70%	26%	3%	2%	6,997



Top 10 Full-time Occupations of 14.4201 Graduates:		14.4201	
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2132	A	Mechanical engineers	22%
2133	Α	Electrical and electronics engineers	16%
*			
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^{*} Data not displayed where n < 5

^{**} Percentages cited are of those employed

Top 10 Full-time Occupations of SYSTEM Graduates:			SYSTEM
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
3012	A	Registered nurses and registered psychiatric nurses	6%
XXXX	0	Unclassified occupations	5%
2173	A	Software engineers and designers	3%
1111	A	Financial auditors and accountants	3%
4032	A	Elementary school and kindergarten teachers	3%
4212	В	Social and community service workers	3%
1123	A	Professional occupations in advertising, marketing and public relations	3%
2174	A	Computer programmers and interactive media developers	3%
1221	В	Administrative officers	2%
4031	Α	Secondary school teachers	2%

^{*} Data not displayed where n < 5

^{**} Percentages cited are of those employed



EDUCATION FINANCING

Funding Sources (3 sources allowed):*	14.	14.4201		TEM
Personal savings, investments	6	17%	2,643	31%
Employment while studying		29%	4,042	48%
Family/Friends	24	69%	5,041	60%
Personal bank loans	2	6%	535	6%
Government student loans	8	23%	2,834	34%
Scholarships/Bursaries/Grants	13	37%	2,631	31%
Other	19	54%	1,990	24%
Total	35		8,391	

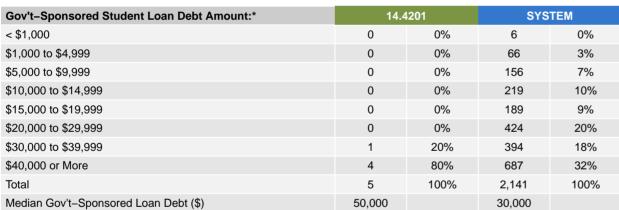
^{*} Percentage of respondents who identified this source

Financial Debt Incurred to Finance Bac. Ed.:*	14.4201		SYSTEM	
Incurred any form of financial debt	15 45%		3,736	44%
Incurred government-sponsored student loan debt	8	24%	3,105	37%

^{*} Percentage of respondents who provided data



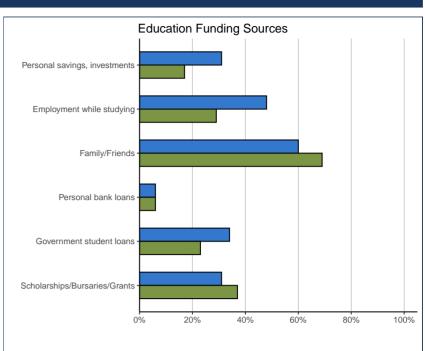
^{*} Includes only cases where financial debt was incurred

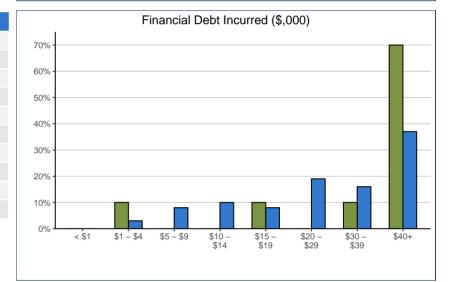


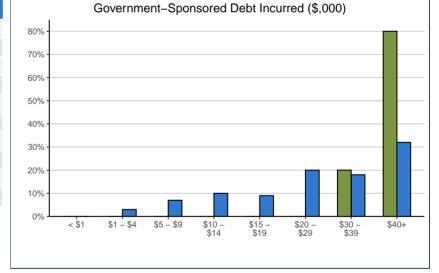
^{*} Includes only cases where government-sponsored debt was incurred

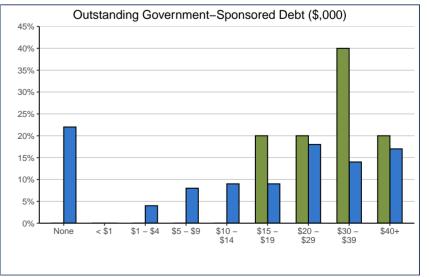


^{*} Includes only cases where government-sponsored debt was incurred, and valid "amount remaining" was provided









^{**} Median amounts shown are based on those who had remaining government student loan debt