

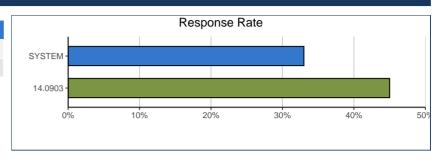
B.C. Baccalaureate Outcomes 2023 Survey of 2021 Baccalaureate Graduates

SYSTEM 14.0903

Detailed Summary of Survey Results
All Institutions
14.0903: Computer software engineering

RESPONSE RATE

Survey Response Rate:	14.0903		SYSTEM	
Baccalaureate Graduates Survey Cohort	99	100%	25,962	100%
Survey Respondents and Response Rate	45	45%	8,603	33%

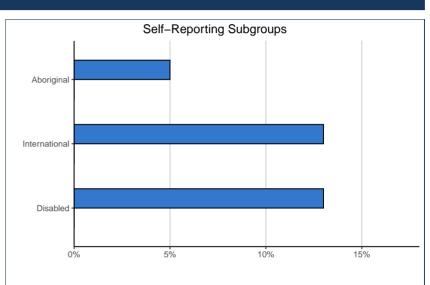


DEMOGRAPHIC INFORMATION

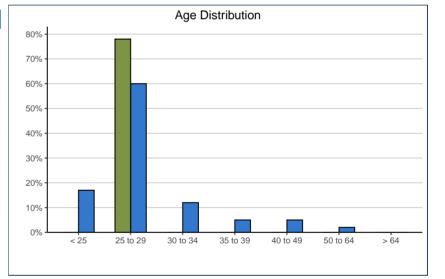
Self-Reporting Subgroups:	14.0903		SYS	TEM
Disabled	~	~	1,079	13%
International	~	~	1,153	13%
Aboriginal	~	~	330	5%

Gender:*	14.0903		SYSTEM	
Male	~	~	3,534	41%
Female	~	~	5,051	59%
Total	45	100%	8,585	100%

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

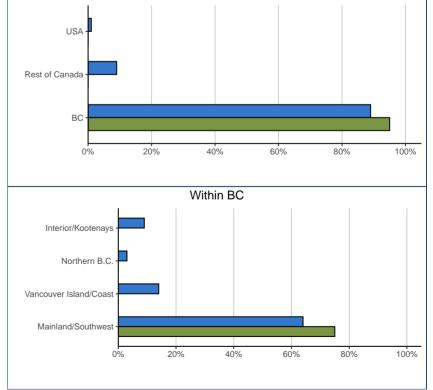


Age (at time of survey):	14.0903		SYSTEM	
< 25	~	~	1,417	17%
25 to 29	35	78%	5,150	60%
30 to 34	~	~	994	12%
35 to 39	~	~	417	5%
40 to 49	0	0%	407	5%
50 to 64	0	0%	175	2%
> 64	0	0%	26	0%
Total	45	100%	8,586	100%
Median Age	26		26	
Average (mean) Age	27		28	



Place of Residence

Place of Residence (at time of survey):	14.0903		SYSTEM	
BC – Mainland/Southwest	30	75%	4,824	64%
BC - Vancouver Island/Coast	~	~	1,065	14%
BC – Northern B.C.	0	0%	225	3%
BC – Interior/Kootenays	~	~	673	9%
BC Subtotal	38	95%	6,787	89%
Canada – Alberta	0	0%	328	4%
Canada – Ontario	~	~	239	3%
Canada – Other	0	0%	165	2%
U.S.A.	~	~	75	1%
Non-BC Subtotal	~	~	807	11%
Total	~	~	7,594	100%





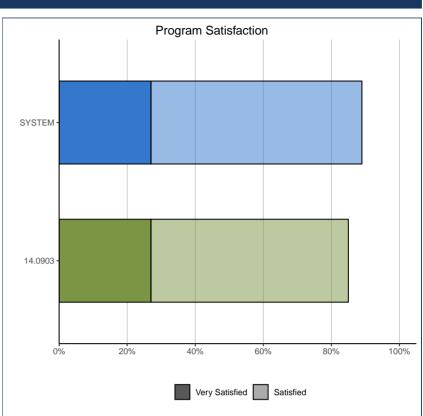


EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	14.0903		SYS	TEM
Very Satisfied	12	27%	2,262	27%
Satisfied	26	58%	5,296	62%
Dissatisfied	7	16%	740	9%
Very Dissatisfied	0	0%	184	2%
Total	45	100%	8,482	100%

14.0903		SYSTEM	
23	52%	2,704	39%
16	36%	3,247	46%
3	7%	814	12%
2	5%	250	4%
44	100%	7,015	100%
	23 16 3 2	23 52% 16 36% 3 7% 2 5%	23 52% 2,704 16 36% 3,247 3 7% 814 2 5% 250

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	14.	14.0903		SYSTEM		
Yes	4	9%	818	10%		
No	41	91%	7,545	90%		



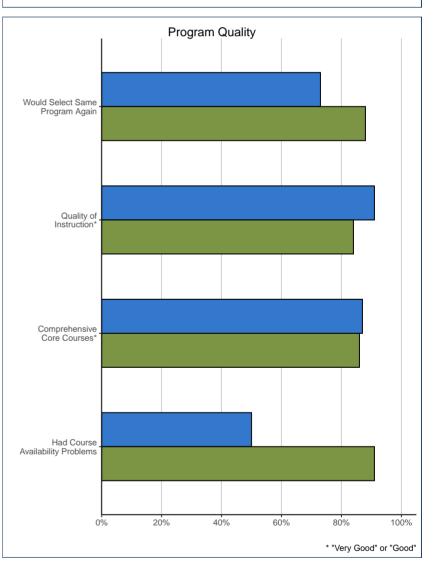
Would select the same program again:	14.0903		SYSTEM	
Yes	36	88%	5,501	73%
No	5	12%	2,019	27%

Quality of Instruction:	14.0	14.0903		TEM
Very Good	7	16%	2,328	27%
Good	30	68%	5,423	64%
Poor	7	16%	649	8%
Very Poor	0	0%	131	2%
Total	44	100%	8.531	100%

Comprehensiveness of Core Courses:	14.0	14.0903		TEM
Very Good	12	27%	2,206	26%
Good	26	59%	5,161	61%
Poor	6	14%	862	10%
Very Poor	0	0%	171	2%
Total	44	100%	8,400	100%

Course Availability:	14.0903		SYSTEM	
Encountered course availability problems	39	91%	4,193	50%

Financial Constraints:	14.0903		SYS	TEM
Had to interrupt studies for financial reasons	4	9%	926	11%
Had to take program part-time for financial reasons	5	11%	1,545	18%



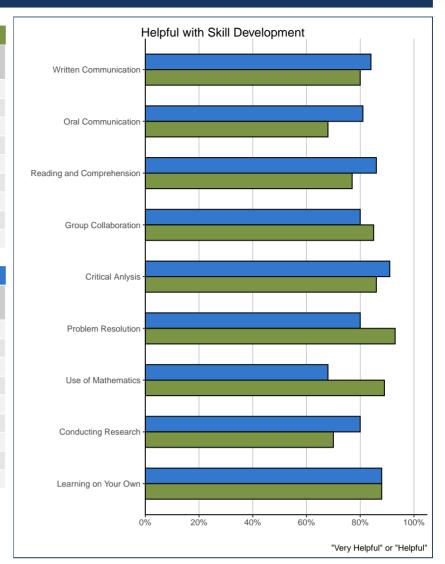




SKILL DEVELOPMENT

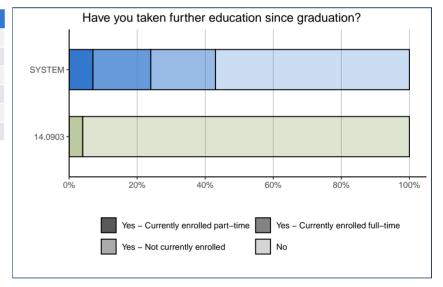
			14.0903		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	16%	64%	16%	5%	44
Oral Communication	10%	58%	30%	3%	40
Reading and Comprehension	27%	50%	18%	5%	44
Group Collaboration	29%	56%	13%	2%	45
Critical Anlysis	33%	53%	9%	4%	45
Problem Resolution	24%	69%	4%	2%	45
Use of Mathematics	32%	57%	11%	0%	44
Conducting Research	25%	45%	23%	8%	40
Learning on Your Own	43%	45%	10%	2%	42

			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

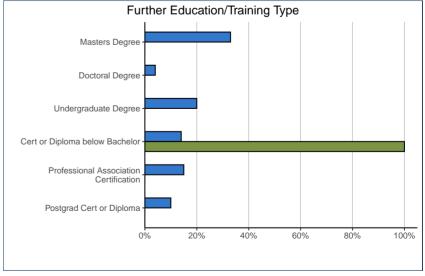


FURTHER EDUCATION

Took further education since 2021 graduation:	14.0903		SYSTEM	
Yes	2	4%	3,668	43%
Not currently enrolled	2	4%	1,580	19%
Currently enrolled full-time	0	0%	1,472	17%
Currently enrolled part-time	0	0%	565	7%
No	43	96%	4,870	57%
Total	45	100%	8,538	100%



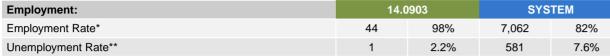
Type of Formal Post–Secondary Education:	14.	14.0903		TEM
Masters Degree	0	0%	1,184	33%
Doctoral Degree	0	0%	153	4%
Another Undergraduate Degree	0	0%	718	20%
Certificate or Diploma below Bachelor level	2	100%	510	14%
Professional Association Certification	0	0%	538	15%
Postgraduate Certificate or Diploma	0	0%	359	10%
Other	0	0%	162	4%
Total	2	100%	3,624	100%



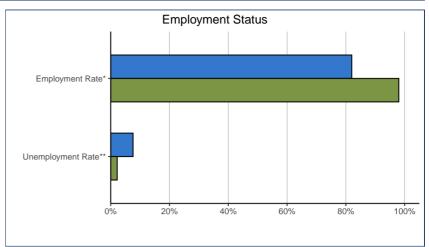


EMPLOYMENT

Labour Fource Status:	14.0903		SYS	TEM
In Labour Force (working or seeking work)	45	100%	7,643	90%
Not in Labour Force	0	0%	803	10%
Total	45	100%	8,446	100%
Employment:	14.0903		SYSTEM	



^{*}Percent = Total employed divided by total number of respondents

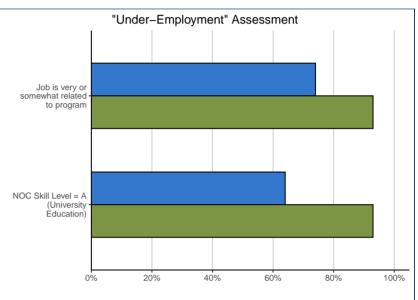


Status of Graduates NOT in Labour Force:	14.0903		SYSTEM	
Attending School FT	0	0%	565	70%
Attending School PT	0	0%	20	2%
Other	0	0%	218	27%
Total NOT in Labour Force	0	0%	803	100%

Primary Employment Type:	14.0903		SYS	TEM
Paid worker	43	98%	6,623	94%
Self-employed	1	2%	412	6%
Total	44	100%	7,035	100%

Job Characteristics:	14.0903		SYS	TEM
I hold more than one job*	3	7%	1,243	18%
My main job is full-time (>= 30 hours per week)**	42	98%	5,922	89%

^{*}Of total Employed



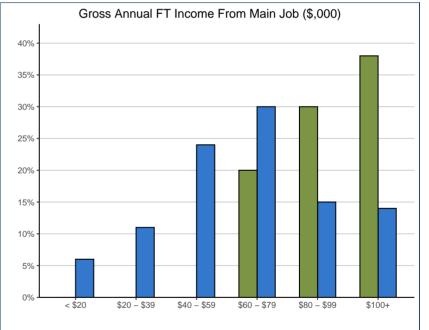
How related is your main job to your program?	14.0903		SYS	TEM
Very Related	31	70%	3,081	44%
Somewhat Related	10	23%	2,151	31%
Not Very Related	0	0%	901	13%
Not at All Related	3	7%	910	13%
Total	44	100%	7,043	100%

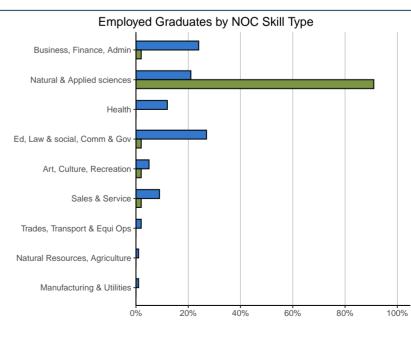
"Under-employment" Assessment:	14.0903 S		SYS	SYSTEM	
Job is very or somewhat related to program	41	93%	5,232	74%	
NOC Skill Level = A (University Education)*	40	93%	4,148	64%	

^{*}Of total valid responses

Gross Annual Income from Main Job:*	14.	14.0903		TEM
Less than \$20,000	~	~	310	6%
\$20,000 to \$39,999	0	0%	593	11%
\$40,000 to \$59,999	~	~	1,303	24%
\$60,000 to \$79,999	8	20%	1,609	30%
\$80,000 to \$99,999	12	30%	805	15%
\$100,000 and Above	15	38%	729	14%
Total	40	100%	5,349	100%
Median Annual Income (full-time) (\$)	90,000		68,000	
Average Annual Income (full-time) (\$)	99,699		74,015	
*Where data provided				

NOC Skill Type of Main Job:	14.0903		SYSTEM	
Business, finance & administration	1	2%	1,558	24%
Natural & applied sciences & related		91%	1,354	21%
Health	0	0%	761	12%
Education, law and social, community & government	1	2%	1,787	27%
Art, culture, recreation & sport	1	2%	296	5%
Sales & service	1	2%	559	9%
Trades, transport & equipment operators & related	0	0%	114	2%
Natural resources, agriculture & related production	0	0%	35	1%
Manufacturing & utilities	0	0%	35	1%
Total	43	100%	6,499	100%





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

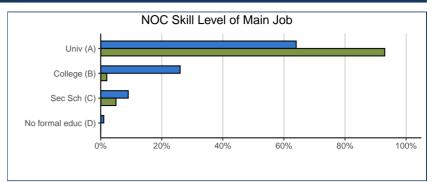
^{**}Of those who provided data on hours/week worked



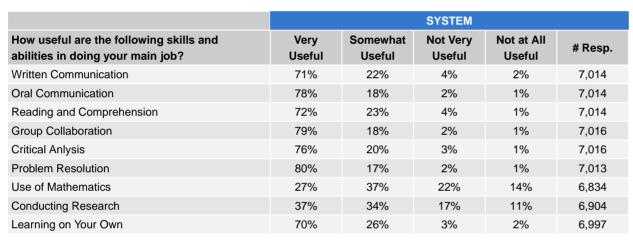


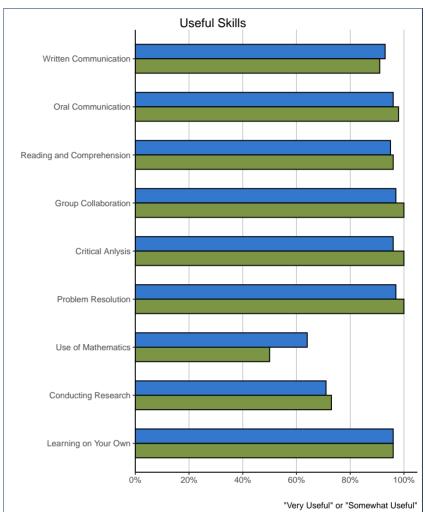
EMPLOYMENT, continued

OC Skill Level of Main Job: 14.0903		0903	SYSTEM	
A. University education	40 93%		4,148	64%
B. College education/trade apprenticeship	1	2%	1,713	26%
C. Secondary school + job-specific training	2	5%	564	9%
D. No formal education	0	0%	90	1%
Total	43	100%	6,515	100%



	14.0903				
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	52%	39%	7%	2%	44
Oral Communication	80%	18%	2%	0%	44
Reading and Comprehension	57%	39%	5%	0%	44
Group Collaboration	75%	25%	0%	0%	44
Critical Anlysis	80%	20%	0%	0%	44
Problem Resolution	84%	16%	0%	0%	44
Use of Mathematics	5%	45%	41%	9%	44
Conducting Research	32%	41%	11%	16%	44
Learning on Your Own	89%	7%	2%	2%	44





Top 10 Full-time Occupations of 14.0903 Graduates:		14.0903	
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2173	Α	Software engineers and designers	36%
2174	Α	Computer programmers and interactive media developers	34%
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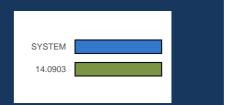
 $^{^{\}star}$ Data not displayed where n < 5

^{**} 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	Α	Registered nurses and registered psychiatric nurses	6%
XXXX	0	Unclassified occupations	5%
2173	Α	Software engineers and designers	3%
1111	Α	Financial auditors and accountants	3%
4032	Α	Elementary school and kindergarten teachers	3%
4212	В	Social and community service workers	3%
1123	Α	Professional occupations in advertising, marketing and public relations	3%
2174	Α	Computer programmers and interactive media developers	3%
1221	В	Administrative officers	2%
4031	A	Secondary school teachers	2%

^{*} Data not displayed where n < 5

^{**} Percentages cited are of those employed



EDUCATION FINANCING

Funding Sources (3 sources allowed):*	14.	14.0903		TEM
Personal savings, investments		24%	2,643	31%
Employment while studying		40%	4,042	48%
Family/Friends	23	51%	5,041	60%
Personal bank loans	1	2%	535	6%
Government student loans	18	40%	2,834	34%
Scholarships/Bursaries/Grants	15	33%	2,631	31%
Other	32	71%	1,990	24%
Total	45		8,391	

^{*} Percentage of respondents who identified this source

Financial Debt Incurred to Finance Bac. Ed.:*	14.0	14.0903		SYSTEM	
Incurred any form of financial debt	21	47%	3,736	44%	
Incurred government-sponsored student loan debt	19	43%	3,105	37%	

^{*} Percentage of respondents who provided data



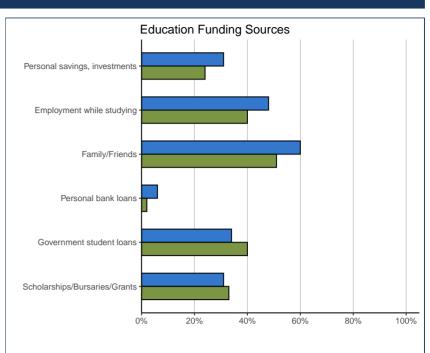
^{*} Includes only cases where financial debt was incurred

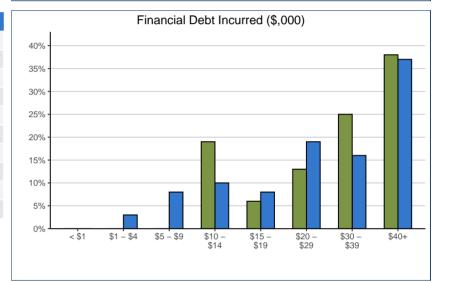


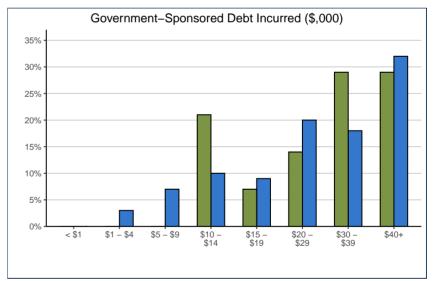
^{*} Includes only cases where government-sponsored debt was incurred

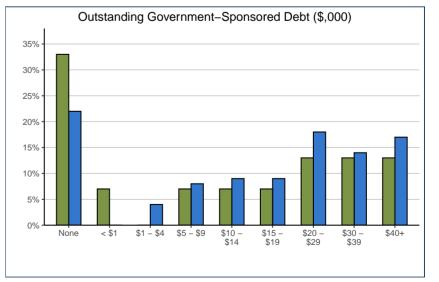


^{*} Includes only cases where government–sponsored debt was incurred, and valid "amount remaining" was provided









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