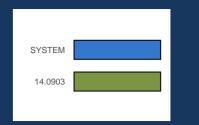


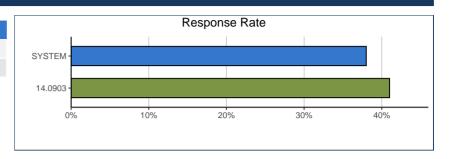
### B.C. Baccalaureate Outcomes 2022 Survey of 2020 Baccalaureate Graduates

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



### RESPONSE RATE

Survey Response Rate:	14.0903		SYSTEM	
Baccalaureate Graduates Survey Cohort	76	100%	24,752	100%
Survey Respondents and Response Rate	31	41%	9,423	38%

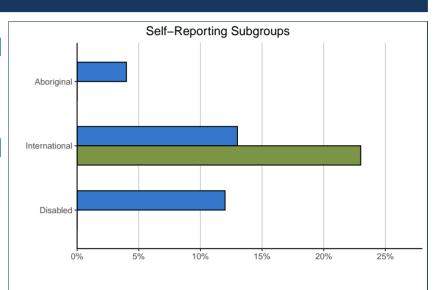


#### DEMOGRAPHIC INFORMATION

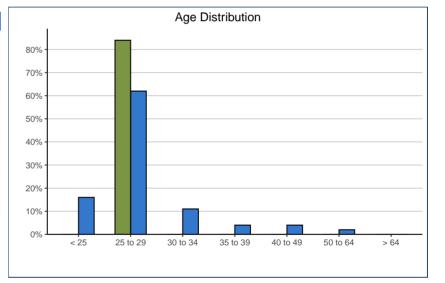
Self-Reporting Subgroups:	14.0903		SYSTEM	
Disabled	~	~	1,082	12%
International	7	23%	1,205	13%
Aboriginal	~	~	357	4%

Gender:*	14.0903		SYSTEM	
Male	~	~	3,744	40%
Female	~	~	5,675	60%
Total	31	100%	9,419	100%

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

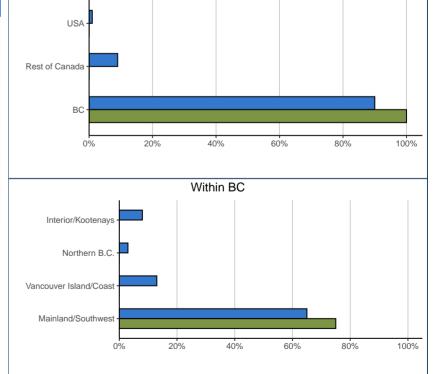


Age (at time of survey):	14.0903		SYSTEM	
< 25	~	~	1,496	16%
25 to 29	26	84%	5,860	62%
30 to 34	~	~	1,035	11%
35 to 39	0	0%	421	4%
40 to 49	0	0%	397	4%
50 to 64	0	0%	186	2%
> 64	0	0%	22	0%
Total	31	100%	9,417	100%
Median Age	26		26	
Average (mean) Age	27		28	



Place of Residence

Place of Residence (at time of survey):	14.	14.0903		SYSTEM	
BC – Mainland/Southwest	18	75%	5,472	65%	
BC - Vancouver Island/Coast	~	~	1,112	13%	
BC – Northern B.C.	0	0%	270	3%	
BC – Interior/Kootenays	~	~	672	8%	
BC Subtotal	24	100%	7,526	90%	
Canada – Alberta	0	0%	343	4%	
Canada – Ontario	0	0%	280	3%	
Canada – Other	0	0%	176	2%	
U.S.A.	0	0%	80	1%	
Non-BC Subtotal	0	0%	879	10%	
Total	24	100%	8,405	100%	





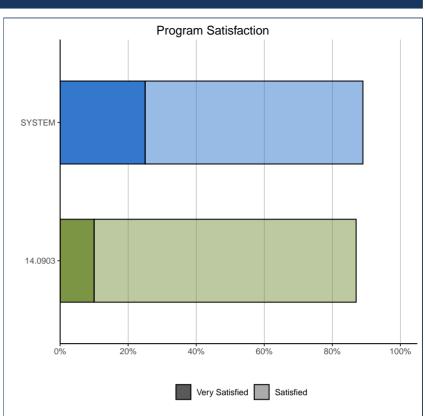


#### **EDUCATION EVALUATION AND SKILL DEVELOPMENT**

Program Satisfaction:	14.0903		SYSTEM	
Very Satisfied	3	10%	2,332	25%
Satisfied	24	77%	5,914	64%
Dissatisfied	2	6%	831	9%
Very Dissatisfied	2	6%	188	2%
Total	31	100%	9,265	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	14.0903		SYSTEM	
Very Useful	12	43%	3,011	38%
Somewhat Useful	13	46%	3,664	47%
Not Very Useful	2	7%	886	11%
Not at All Useful	1	4%	283	4%
Total	28	100%	7,844	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	14.	14.0903		SYSTEM		
Yes	1	4%	902	10%		
No	27	96%	8,298	90%		



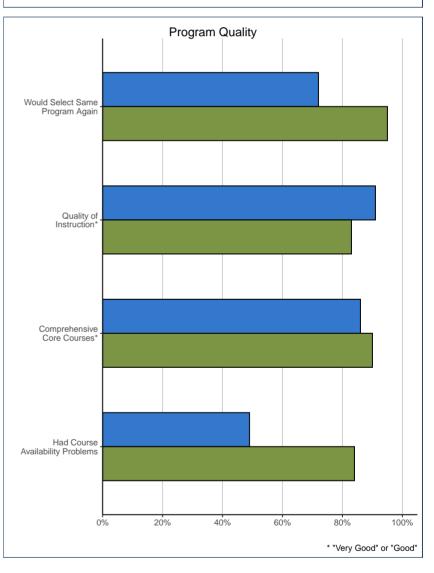
Would select the same program again:	14.0903		SYSTEM	
Yes	21	95%	5,963	72%
No	1	5%	2,334	28%

Quality of Instruction:	14.0	14.0903		TEM
Very Good	4	4 13%		27%
Good	21	70%	6,007	64%
Poor	5	17%	685	7%
Very Poor	0	0%	131	1%
Total	30	100%	9.321	100%

Comprehensiveness of Core Courses:	14.0	14.0903		TEM
Very Good	4	13%	2,303	25%
Good	23	77%	5,649	61%
Poor	3	10%	1,073	12%
Very Poor	0	0%	172	2%
Total	30	100%	9.197	100%

Course Availability:	14.0903		SYSTEM	
Encountered course availability problems	26	84%	4,485	49%

Financial Constraints:	14.0903		SYSTEM	
Had to interrupt studies for financial reasons	2	7%	987	11%
Had to take program part-time for financial reasons	4	13%	1,629	18%

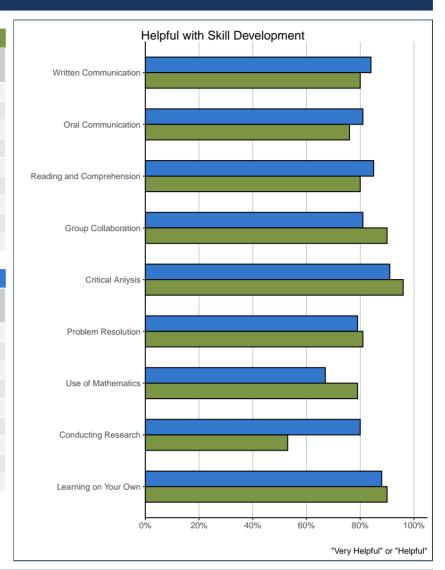




#### SKILL DEVELOPMENT

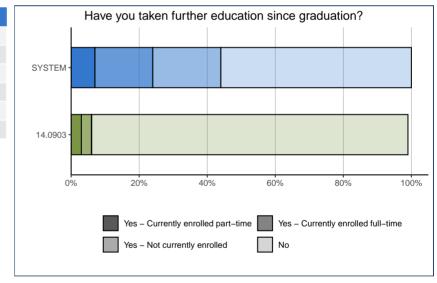
			14.0903		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	21%	59%	17%	3%	29
Oral Communication	17%	59%	10%	14%	29
Reading and Comprehension	30%	50%	20%	0%	30
Group Collaboration	29%	61%	10%	0%	31
Critical Anlysis	35%	61%	3%	0%	31
Problem Resolution	29%	52%	19%	0%	31
Use of Mathematics	29%	50%	18%	4%	28
Conducting Research	15%	38%	38%	8%	26
Learning on Your Own	48%	42%	10%	0%	31

			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

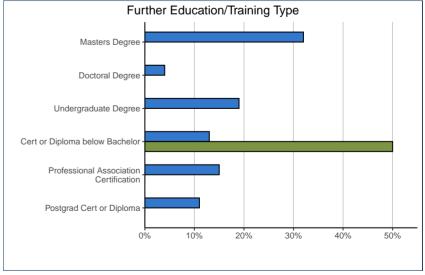


#### **FURTHER EDUCATION**

Took further education since 2020 graduation:	14.0903		SYSTEM	
Yes	2	7%	4,119	44%
Not currently enrolled	0	0%	1,831	20%
Currently enrolled full-time	1	3%	1,602	17%
Currently enrolled part-time	1	3%	637	7%
No	27	93%	5,244	56%
Total	29	100%	9,363	100%



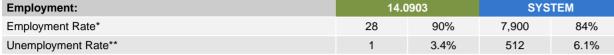
Type of Formal Post–Secondary Education:	14.	14.0903		TEM
Masters Degree	0	0%	1,307	32%
Doctoral Degree	0	0%	167	4%
Another Undergraduate Degree	0	0%	789	19%
Certificate or Diploma below Bachelor level	1	50%	527	13%
Professional Association Certification	0	0%	603	15%
Postgraduate Certificate or Diploma	0	0%	431	11%
Other	1	50%	236	6%
Total	2	100%	4,060	100%



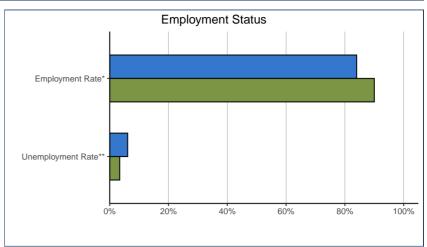


#### **EMPLOYMENT**

Labour Fource Status:	14.0	14.0903		TEM
In Labour Force (working or seeking work)	29	100%	8,412	91%
Not in Labour Force	0	0%	857	9%
Total	29	100%	9,269	100%
Employment:	14.0903		SYSTEM	



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

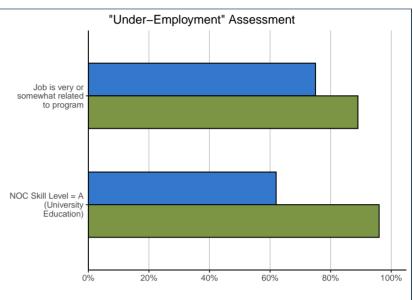


Status of Graduates NOT in Labour Force:	14.0903		SYSTEM	
Attending School FT	0	0%	597	70%
Attending School PT	0	0%	23	3%
Other	0	0%	237	28%
Total NOT in Labour Force	0	0%	857	100%

Primary Employment Type:	14.0903		SYSTEM	
Paid worker	28	100%	7,394	94%
Self-employed	0	0%	493	6%
Total	28	100%	7,887	100%

Job Characteristics:	14.0903		SYS	TEM
I hold more than one job*	0	0%	1,463	19%
My main job is full-time (>= 30 hours per week)**	26	100%	6,655	89%

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



How related is your main job to your program?	14.0903		SYSTEM	
Very Related	19	68%	3,386	43%
Somewhat Related	6	21%	2,530	32%
Not Very Related	2	7%	1,013	13%
Not at All Related	1	4%	954	12%
Total	28	100%	7,883	100%

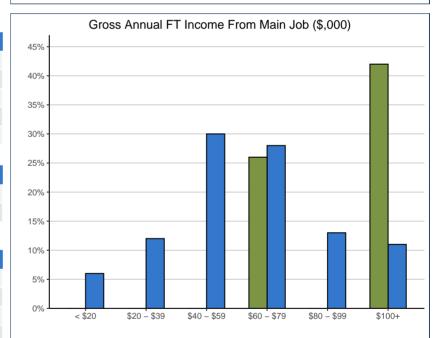
"Under-employment" Assessment:	14.0903		SYSTEM	
Job is very or somewhat related to program	25	89%	5,916	75%
NOC Skill Level = A (University Education)*	24	96%	4,631	62%

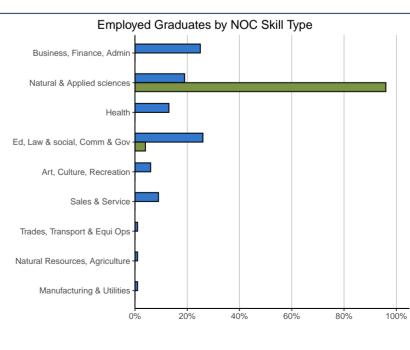
<sup>\*</sup>Of total valid responses

14.	14.0903		SYSTEM	
0	0%	328	6%	
0	0%	725	12%	
~	~	1,773	30%	
5	26%	1,673	28%	
~	~	799	13%	
8	42%	659	11%	
19	100%	5,957	100%	
95,000		63,000		
106,657		70,455		
	0 0 ~ 5 ~ 8 19 95,000	0 0% 0 0% ~ ~ ~ 5 26% ~ ~ ~ 8 42% 19 100%	0       0%       328         0       0%       725         ~       ~       1,773         5       26%       1,673         ~       ~       799         8       42%       659         19       100%       5,957         95,000       63,000	

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

NOC Skill Type of Main Job:	14	14.0903		TEM
Business, finance & administration	0	0%	1,844	25%
Natural & applied sciences & related		96%	1,422	19%
Health		0%	933	13%
Education, law and social, community & government	1	4%	1,946	26%
Art, culture, recreation & sport	0	0%	438	6%
Sales & service	0	0%	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	25	100%	7,426	100%

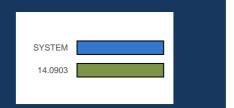




<sup>\*\*</sup>Percent = Total unemployed divided by total number in Labour Force

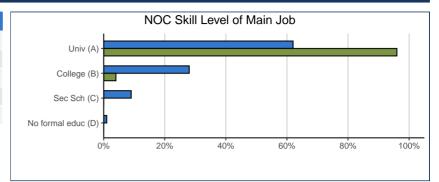
<sup>\*\*</sup>Of those who provided data on hours/week worked





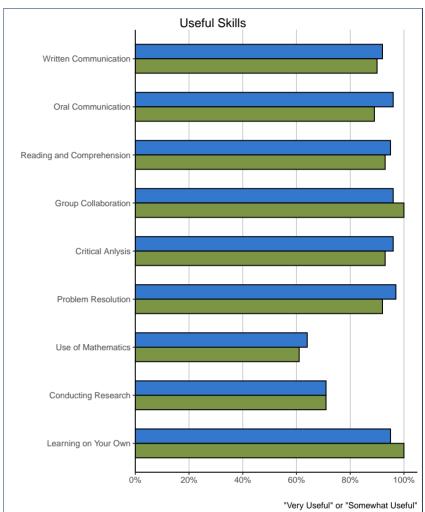
### EMPLOYMENT, continued

NOC Skill Level of Main Job:	14.0903		SYSTEM	
A. University education		96%	4,631	62%
B. College education/trade apprenticeship	1	4%	2,082	28%
C. Secondary school + job-specific training	0	0%	647	9%
D. No formal education	0	0%	86	1%
Total	25	100%	7,446	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	54%	36%	4%	7%	28
Oral Communication	75%	14%	7%	4%	28
Reading and Comprehension	75%	18%	0%	7%	28
Group Collaboration	68%	32%	0%	0%	28
Critical Anlysis	89%	4%	7%	0%	28
Problem Resolution	71%	21%	7%	0%	28
Use of Mathematics	11%	50%	21%	18%	28
Conducting Research	39%	32%	18%	11%	28
Learning on Your Own	82%	18%	0%	0%	28

		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 14.0903 Graduates:		14.0903	
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2174	A	Computer programmers and interactive media developers	39%
2173	Α	Software engineers and designers	29%
*			
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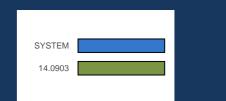
<sup>\*</sup> Data not displayed where n < 5

<sup>\*\*</sup> 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%
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):*	14.	14.0903		TEM
Personal savings, investments		29%	2,849	31%
Employment while studying		39%	4,716	51%
Family/Friends	16	57%	5,423	59%
Personal bank loans	0	0%	600	7%
Government student loans	11	39%	3,008	33%
Scholarships/Bursaries/Grants	6	21%	2,803	31%
Other	14	50%	1,997	22%
Total	28		9,180	

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

Financial Debt Incurred to Finance Bac. Ed.:*	14.0903		SYSTEM	
Incurred any form of financial debt	12	40%	4,031	44%
Incurred government-sponsored student loan debt	11	37%	3,331	36%

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



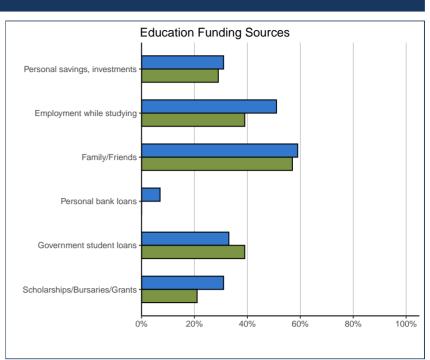
<sup>\*</sup> Includes only cases where financial debt was incurred

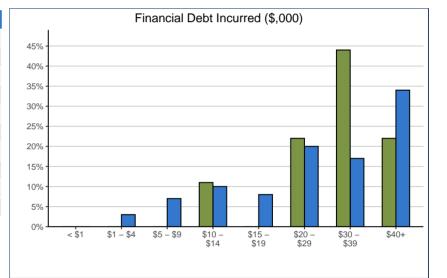


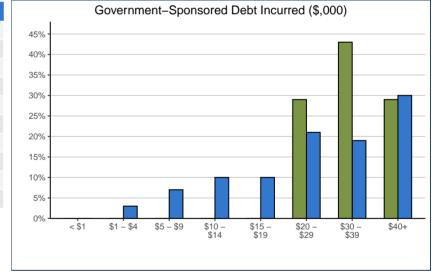
<sup>\*</sup> Includes only cases where government-sponsored debt was incurred

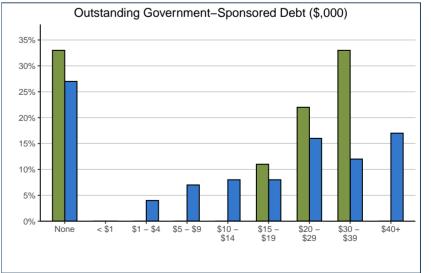


<sup>\*</sup> Includes only cases where government-sponsored debt was incurred, and valid "amount remaining" was provided









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