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

Detailed Summary of Survey Results
All Institutions
14.1901: Mechanical engineering

RESPONSE RATE

Survey Response Rate:	14.1901		SYSTEM	
Baccalaureate Graduates Survey Cohort	333	100%	25,962	100%
Survey Respondents and Response Rate	119	36%	8,603	33%
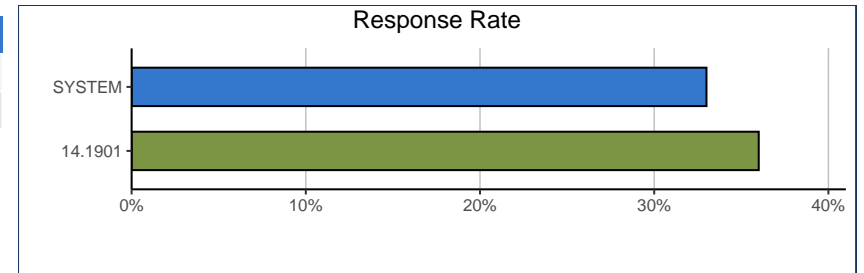
DEMOGRAPHIC INFORMATION

Self–Reporting Subgroups:	14.1901		SYSTEM	
Disabled	11	10%	1,079	13%
International	13	11%	1,153	13%
Aboriginal	~	~	330	5%
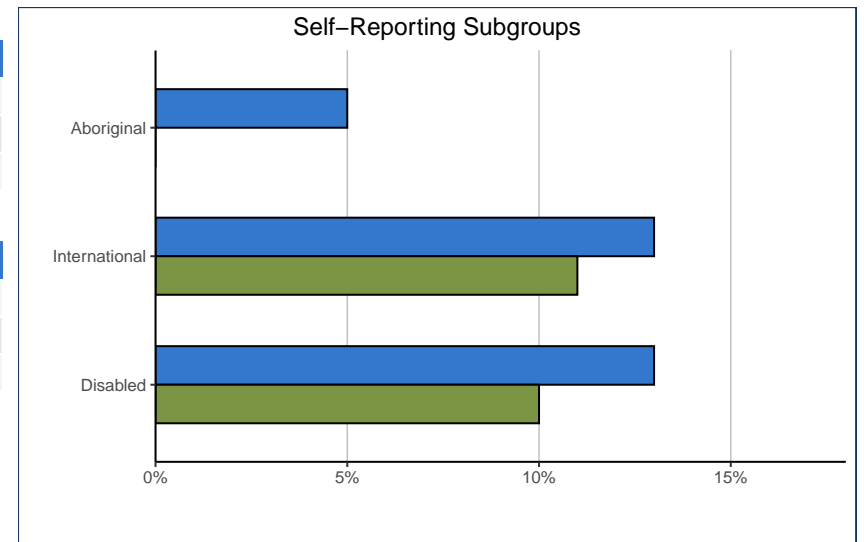
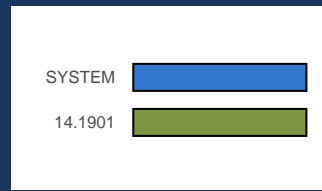| Gender:*	14.1901		SYSTEM	
Male	101	85%	3,534	41%
Female	18	15%	5,051	59%
Total	119	100%	8,585	100%

*Due to zero or low counts, institution–reported "Non–binary" demographic data are not included.

Age (at time of survey):	14.1901		SYSTEM	
< 25	12	10%	1,417	17%
25 to 29	86	73%	5,150	60%
30 to 34	15	13%	994	12%
35 to 39	~	~	417	5%
40 to 49	~	~	407	5%
50 to 64	0	0%	175	2%
> 64	0	0%	26	0%
Total	118	100%	8,586	100%
Median Age	26		26	
Average (mean) Age	27		28	
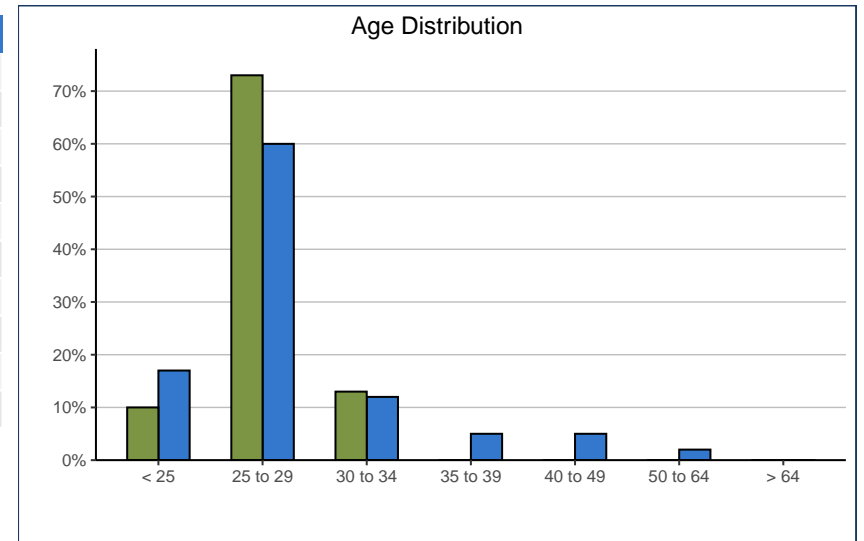
Place of Residence (at time of survey):	14.1901		SYSTEM	
BC – Mainland/Southwest	35	38%	4,824	64%
BC – Vancouver Island/Coast	18	19%	1,065	14%
BC – Northern B.C.	0	0%	225	3%
BC – Interior/Kootenays	20	22%	673	9%
BC Subtotal	73	78%	6,787	89%
Canada – Alberta	12	13%	328	4%
Canada – Ontario	~	~	239	3%
Canada – Other	~	~	165	2%
U.S.A.	~	~	75	1%
Non–BC Subtotal	20	22%	807	11%
Total	93	100%	7,594	100%

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
14.1901: Mechanical engineering
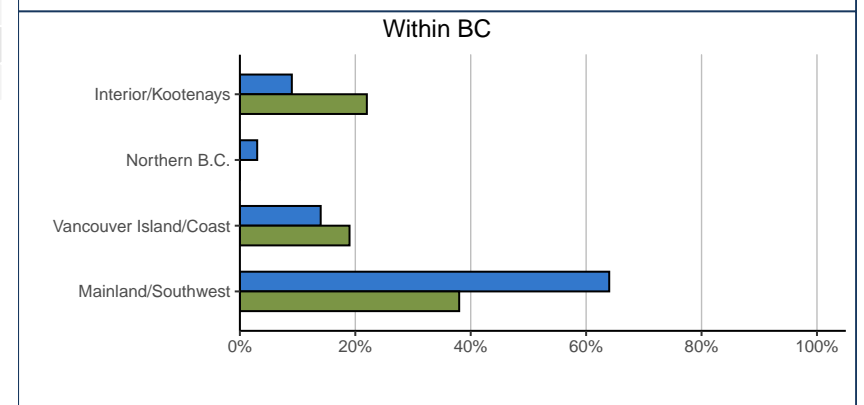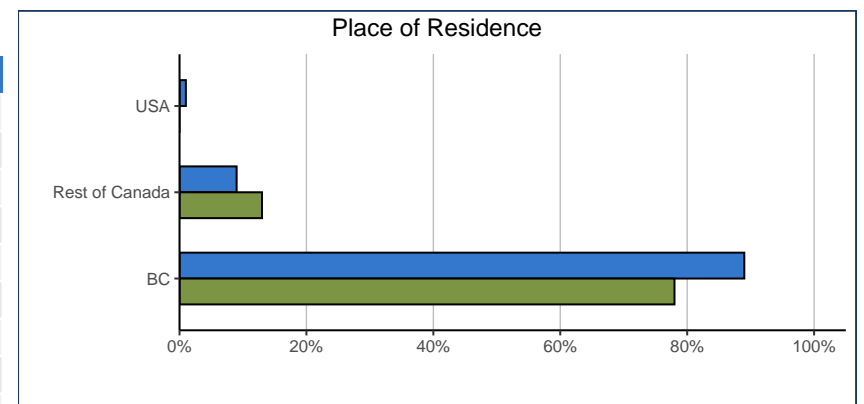
SYSTEM

14.1901

EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	14.1901		SYSTEM	
Very Satisfied	29	24%	2,262	27%
Satisfied	75	63%	5,296	62%
Dissatisfied	13	11%	740	9%
Very Dissatisfied	2	2%	184	2%
Total	119	100%	8,482	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	14.1901		SYSTEM	
Very Useful	32	32%	2,704	39%
Somewhat Useful	51	51%	3,247	46%
Not Very Useful	15	15%	814	12%
Not at All Useful	2	2%	250	4%
Total	100	100%	7,015	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	14.1901		SYSTEM	
Yes	12	11%	818	10%
No	101	89%	7,545	90%
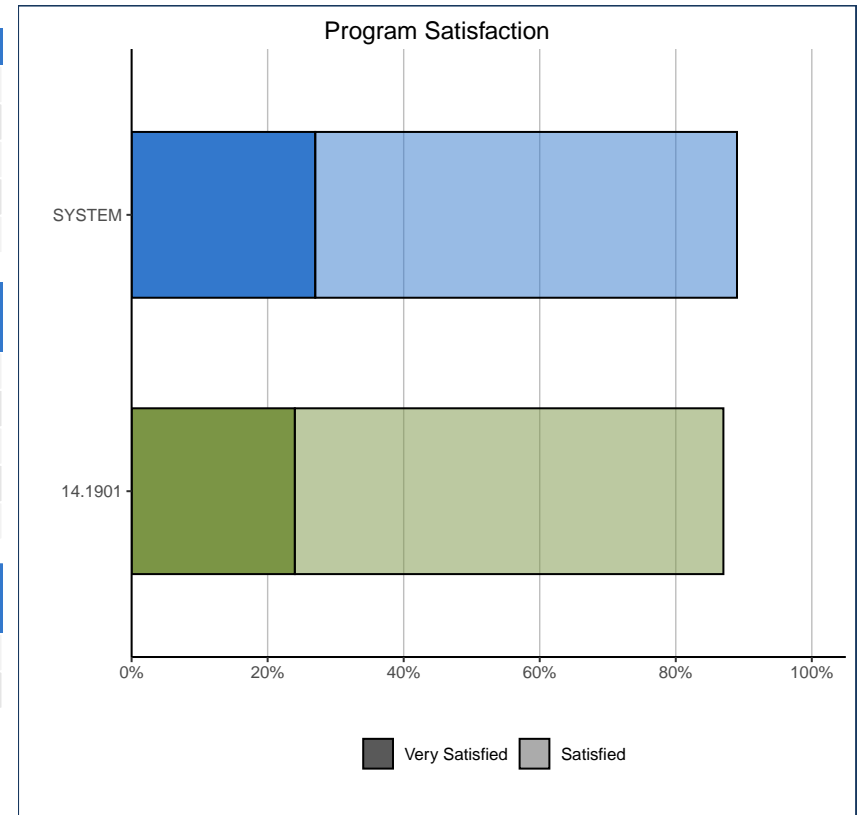
Would select the same program again:	14.1901		SYSTEM	
Yes	86	80%	5,501	73%
No	22	20%	2,019	27%

Quality of Instruction:	14.1901		SYSTEM	
Very Good	21	18%	2,328	27%
Good	87	74%	5,423	64%
Poor	9	8%	649	8%
Very Poor	1	1%	131	2%
Total	118	100%	8,531	100%
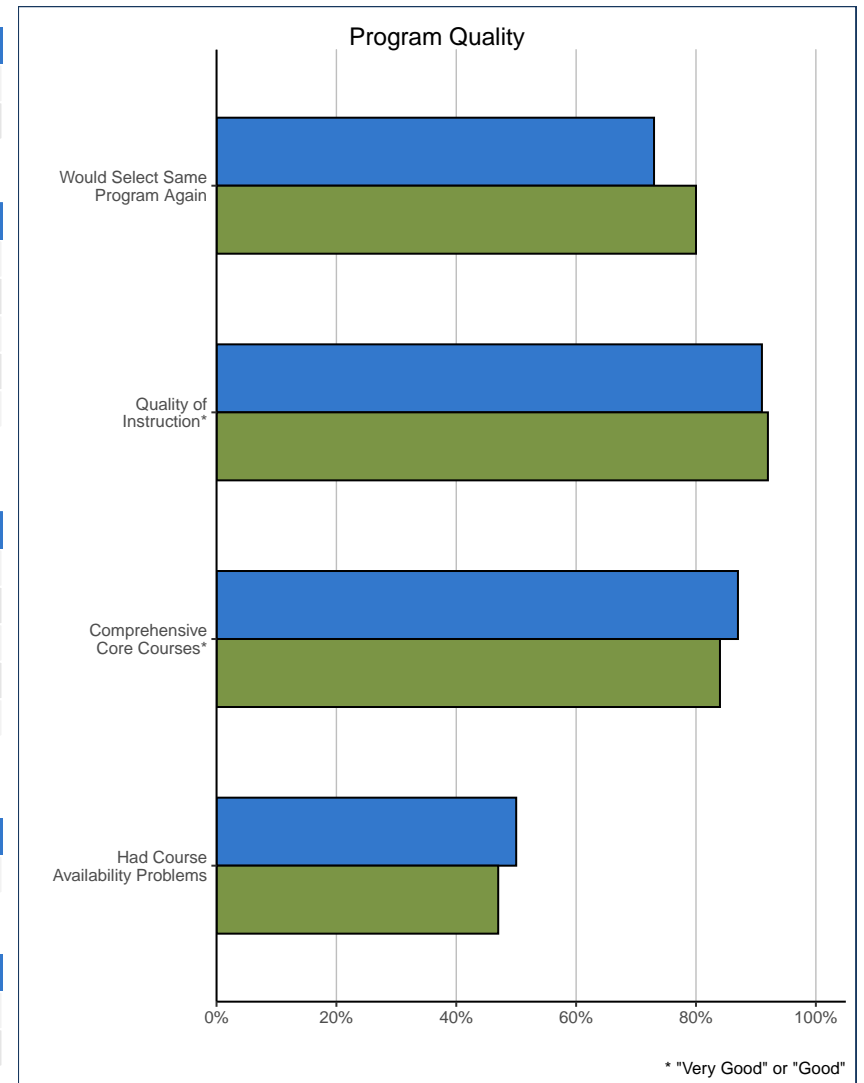
Comprehensiveness of Core Courses:	14.1901		SYSTEM	
Very Good	27	23%	2,206	26%
Good	73	61%	5,161	61%
Poor	15	13%	862	10%
Very Poor	4	3%	171	2%
Total	119	100%	8,400	100%

Course Availability:	14.1901		SYSTEM	
Encountered course availability problems	55	47%	4,193	50%

| Financial Constraints:	14.1901		SYSTEM	
Had to interrupt studies for financial reasons	7	6%	926	11%
Had to take program part–time for financial reasons	8	7%	1,545	18%

Program Satisfaction

Very Satisfied   Satisfied

Program Quality

* "Very Good" or "Good"

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
14.1901: Mechanical engineering
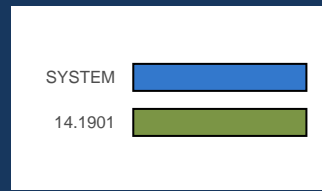
SYSTEM		
14.1901		

SKILL DEVELOPMENT

Skill Development: How helpful was institution?	14.1901				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	12%	64%	22%	3%	116
Oral Communication	8%	63%	28%	2%	115
Reading and Comprehension	20%	58%	19%	3%	118
Group Collaboration	32%	54%	13%	1%	119
Critical Anlysis	48%	42%	9%	1%	117
Problem Resolution	28%	60%	10%	3%	119
Use of Mathematics	48%	45%	8%	0%	119
Conducting Research	22%	42%	27%	9%	117
Learning on Your Own	49%	36%	12%	3%	119

Skill Development: How helpful was institution?	SYSTEM				
	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

Helpful with Skill Development

"Very Helpful" or "Helpful"
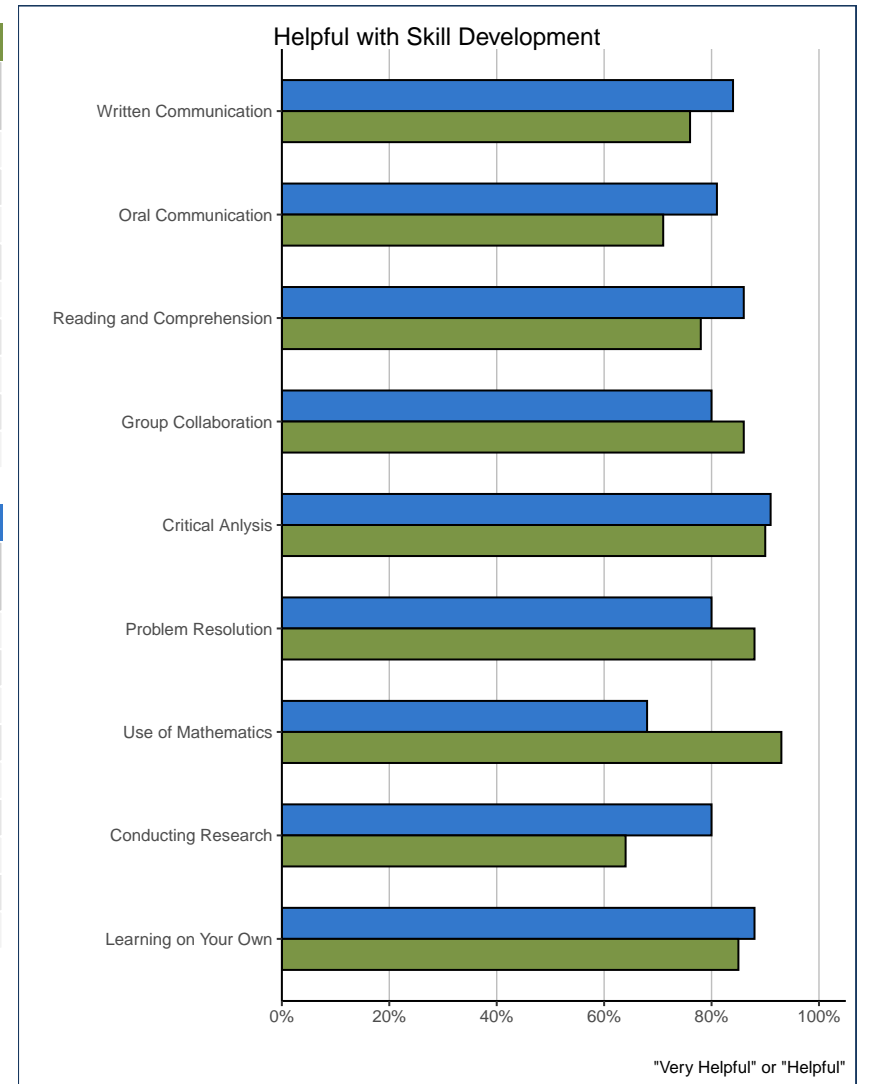
FURTHER EDUCATION

Took further education since 2021 graduation:	14.1901		SYSTEM	
Yes	30	25%	3,668	43%
Not currently enrolled	10	8%	1,580	19%
Currently enrolled full–time	12	10%	1,472	17%
Currently enrolled part–time	7	6%	565	7%
No	88	75%	4,870	57%
Total	118	100%	8,538	100%

Have you taken further education since graduation?

- Yes – Currently enrolled part–time
- Yes – Currently enrolled full–time
- Yes – Not currently enrolled
- No
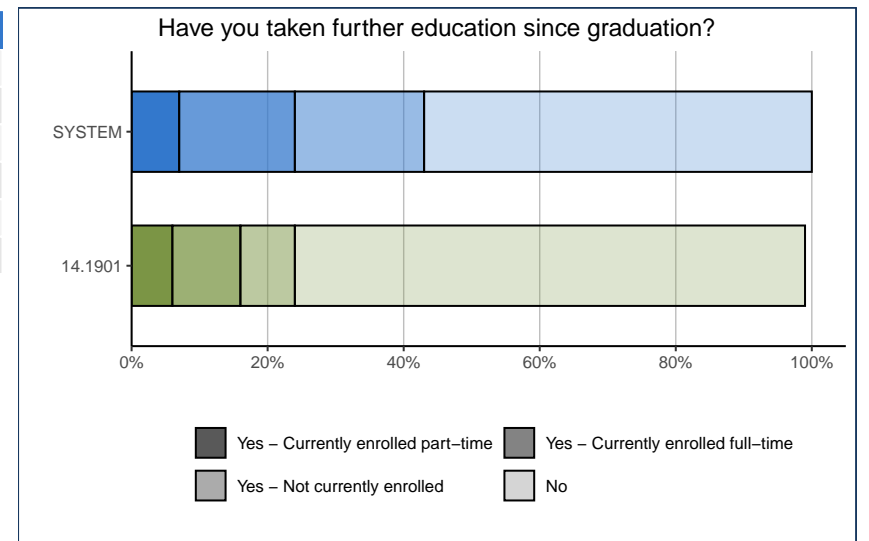
Type of Formal Post–Secondary Education:	14.1901		SYSTEM	
Masters Degree	15	52%	1,184	33%
Doctoral Degree	1	3%	153	4%
Another Undergraduate Degree	3	10%	718	20%
Certificate or Diploma below Bachelor level	3	10%	510	14%
Professional Association Certification	5	17%	538	15%
Postgraduate Certificate or Diploma	0	0%	359	10%
Other	2	7%	162	4%
Total	29	100%	3,624	100%

Further Education/Training Type

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
14.1901: Mechanical engineering
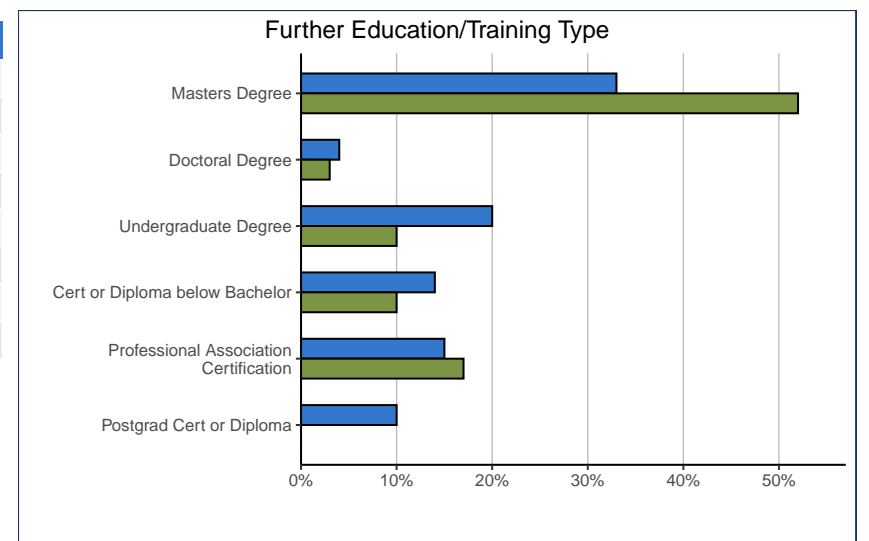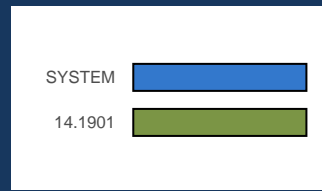
SYSTEM
14.1901

EMPLOYMENT

Labour Fource Status:	14.1901		SYSTEM	
In Labour Force (working or seeking work)	109	93%	7,643	90%
Not in Labour Force	8	7%	803	10%
Total	117	100%	8,446	100%

Employment:	14.1901		SYSTEM	
Employment Rate*	101	85%	7,062	82%
Unemployment Rate**	8	7.3%	581	7.6%

*Percent = Total employed divided by total number of respondents
**Percent = Total unemployed divided by total number in Labour Force
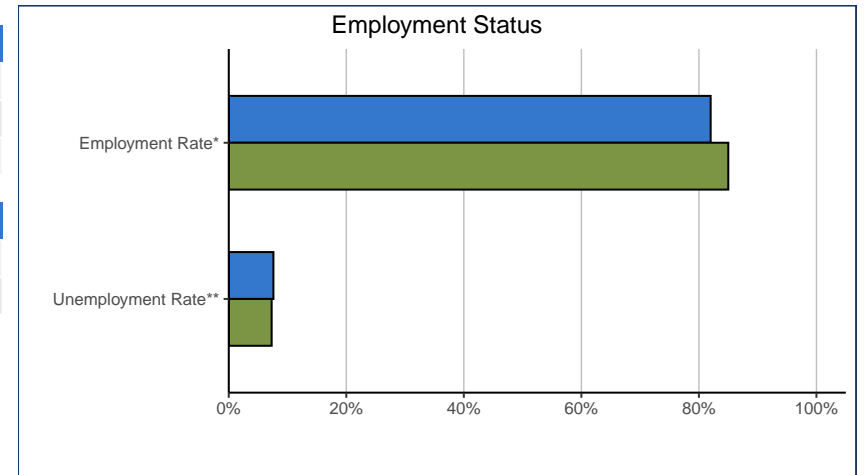
Employment Status

Status of Graduates NOT in Labour Force:	14.1901		SYSTEM	
Attending School FT	5	63%	565	70%
Attending School PT	1	13%	20	2%
Other	2	25%	218	27%
Total NOT in Labour Force	8	100%	803	100%
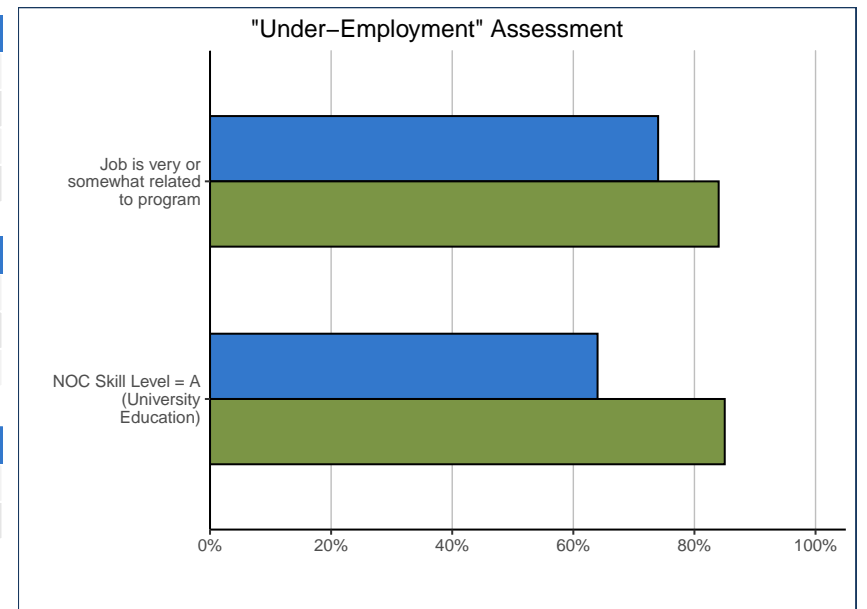
Primary Employment Type:	14.1901		SYSTEM	
Paid worker	101	100%	6,623	94%
Self–employed	0	0%	412	6%
Total	101	100%	7,035	100%

Job Characteristics:	14.1901		SYSTEM	
I hold more than one job*	8	8%	1,243	18%
My main job is full–time (>= 30 hours per week)**	98	99%	5,922	89%

*Of total Employed
**Of those who provided data on hours/week worked

"Under–Employment" Assessment

How related is your main job to your program?	14.1901		SYSTEM	
Very Related	41	41%	3,081	44%
Somewhat Related	44	44%	2,151	31%
Not Very Related	10	10%	901	13%
Not at All Related	6	6%	910	13%
Total	101	100%	7,043	100%
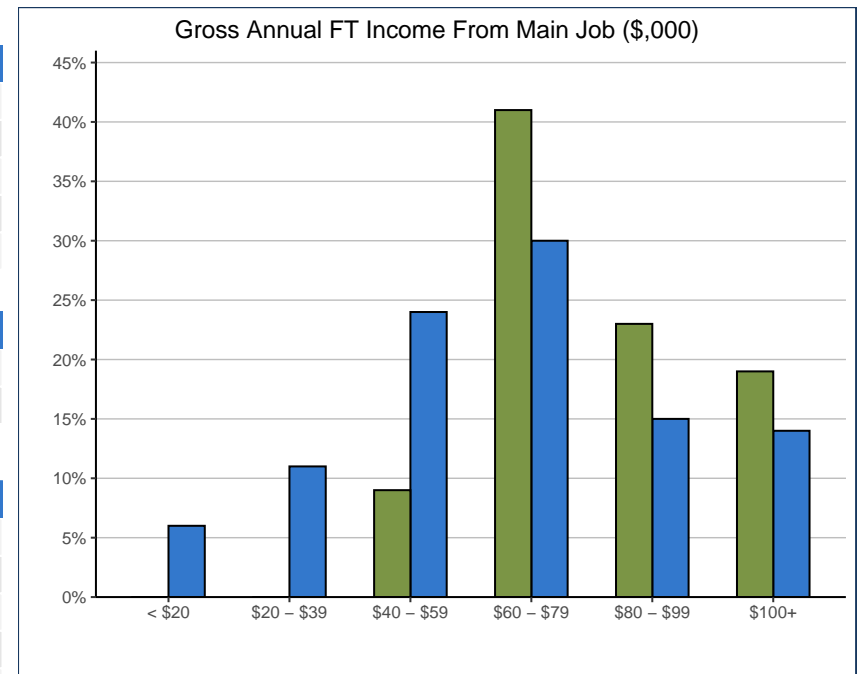
"Under–employment" Assessment:	14.1901		SYSTEM	
Job is very or somewhat related to program	85	84%	5,232	74%
NOC Skill Level = A (University Education)*	78	85%	4,148	64%

*Of total valid responses

Gross Annual Income from Main Job:*	14.1901		SYSTEM	
Less than $20,000	~	~	310	6%
$20,000 to $39,999	~	~	593	11%
$40,000 to $59,999	7	9%	1,303	24%
$60,000 to $79,999	30	41%	1,609	30%
$80,000 to $99,999	17	23%	805	15%
$100,000 and Above	14	19%	729	14%
Total	74	100%	5,349	100%
Median Annual Income (full–time) ($)	75,322		68,000	
Average Annual Income (full–time) ($)	83,337		74,015	

*Where data provided

Gross Annual FT Income From Main Job ($,000)

NOC Skill Type of Main Job:	14.1901		SYSTEM	
Business, finance & administration	1	1%	1,558	24%
Natural & applied sciences & related	82	89%	1,354	21%
Health	0	0%	761	12%
Education, law and social, community & government	3	3%	1,787	27%
Art, culture, recreation & sport	1	1%	296	5%
Sales & service	1	1%	559	9%
Trades, transport & equipment operators & related	3	3%	114	2%
Natural resources, agriculture & related production	0	0%	35	1%
Manufacturing & utilities	1	1%	35	1%
Total	92	100%	6,499	100%

Employed Graduates by NOC Skill Type

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
14.1901: Mechanical engineering
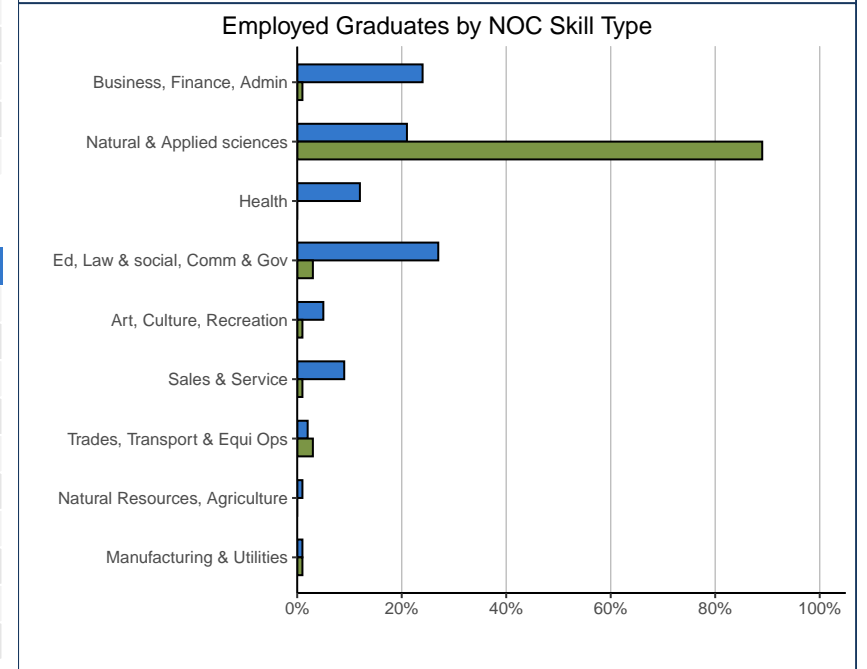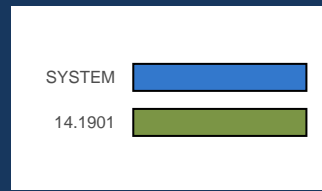
SYSTEM
14.1901

EMPLOYMENT, continued

NOC Skill Level of Main Job:	14.1901		SYSTEM	
A. University education	78	85%	4,148	64%
B. College education/trade apprenticeship	13	14%	1,713	26%
C. Secondary school + job–specific training	1	1%	564	9%
D. No formal education	0	0%	90	1%
Total	92	100%	6,515	100%
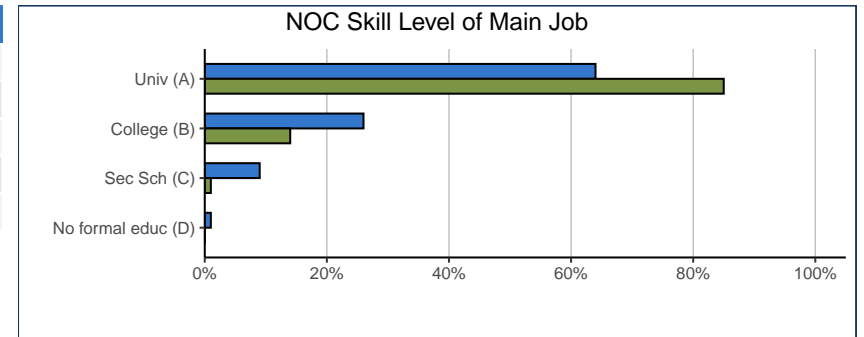
NOC Skill Level of Main Job

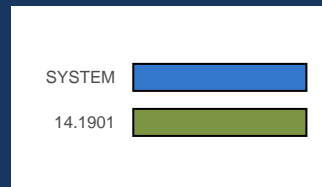|	14.1901				
How useful are the following skills and abilities in doing your main job?	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	68%	25%	7%	0%	101
Oral Communication	79%	19%	2%	0%	101
Reading and Comprehension	71%	25%	4%	0%	101
Group Collaboration	76%	22%	2%	0%	101
Critical Anlysis	83%	13%	3%	1%	101
Problem Resolution	85%	13%	1%	1%	101
Use of Mathematics	32%	43%	21%	5%	101
Conducting Research	43%	38%	14%	6%	101
Learning on Your Own	78%	20%	2%	0%	101
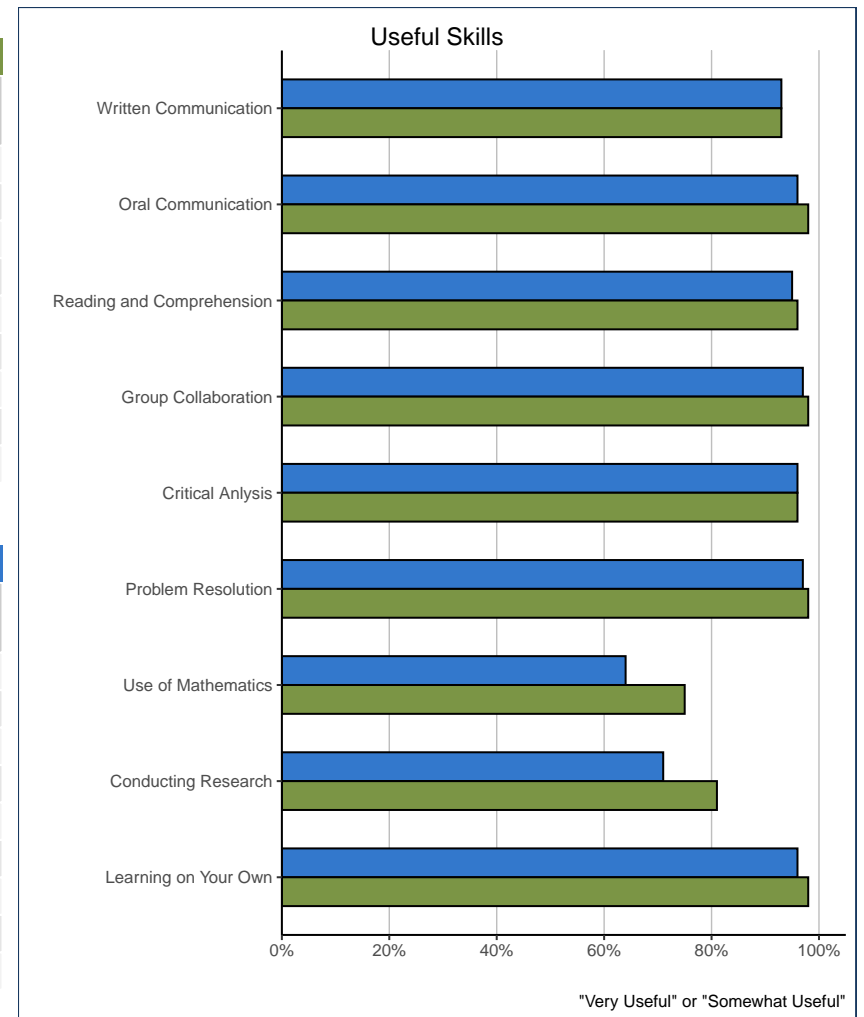
	SYSTEM				
How useful are the following skills and abilities in doing your main job?	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	71%	22%	4%	2%	7,014
Oral Communication	78%	18%	2%	1%	7,014
Reading and Comprehension	72%	23%	4%	1%	7,014
Group Collaboration	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

Useful Skills

"Very Useful" or "Somewhat Useful"

Top 10 Full–time Occupations of 14.1901 Graduates:			14.1901
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2132	A	Mechanical engineers	53%
XXXX	O	Unclassified occupations	8%
2131	A	Civil engineers	5%
*			
*			
*			
*			
*			
*			
*			

* 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	O	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	B	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	B	Administrative officers	2%
4031	A	Secondary school teachers	2%

* Data not displayed where n < 5

** Percentages cited are of those employed

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
14.1901: Mechanical engineering

SYSTEM
14.1901

EDUCATION FINANCING

Funding Sources (3 sources allowed):*	14.1901		SYSTEM	
Personal savings, investments	39	33%	2,643	31%
Employment while studying	28	24%	4,042	48%
Family/Friends	71	61%	5,041	60%
Personal bank loans	7	6%	535	6%
Government student loans	41	35%	2,834	34%
Scholarships/Bursaries/Grants	38	32%	2,631	31%
Other	64	55%	1,990	24%
Total	117		8,391	

* Percentage of respondents who identified this source

Education Funding Sources
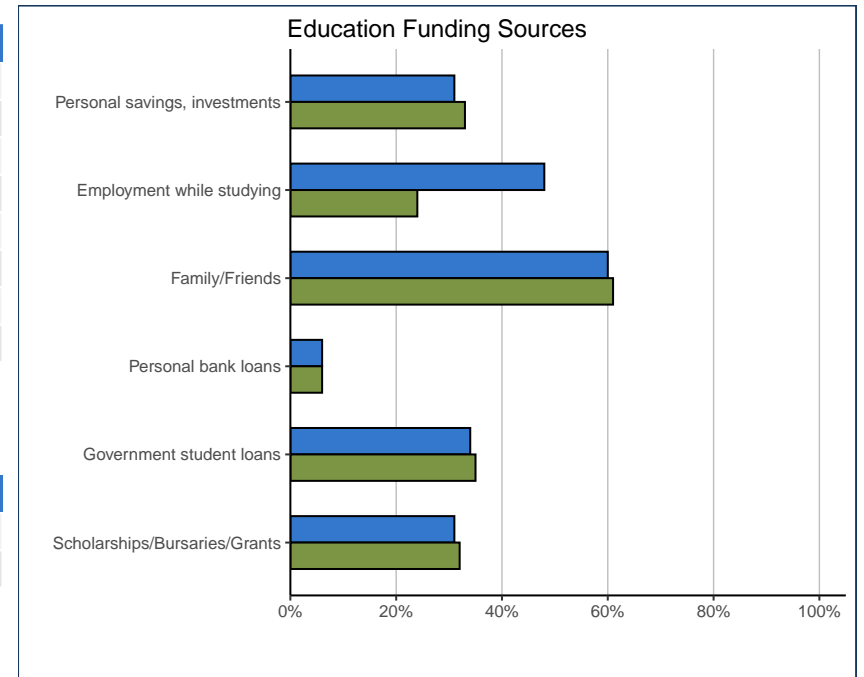
Financial Debt Incurred to Finance Bac. Ed.:*	14.1901		SYSTEM	
Incurred any form of financial debt	56	50%	3,736	44%
Incurred government–sponsored student loan debt	48	41%	3,105	37%

* Percentage of respondents who provided data
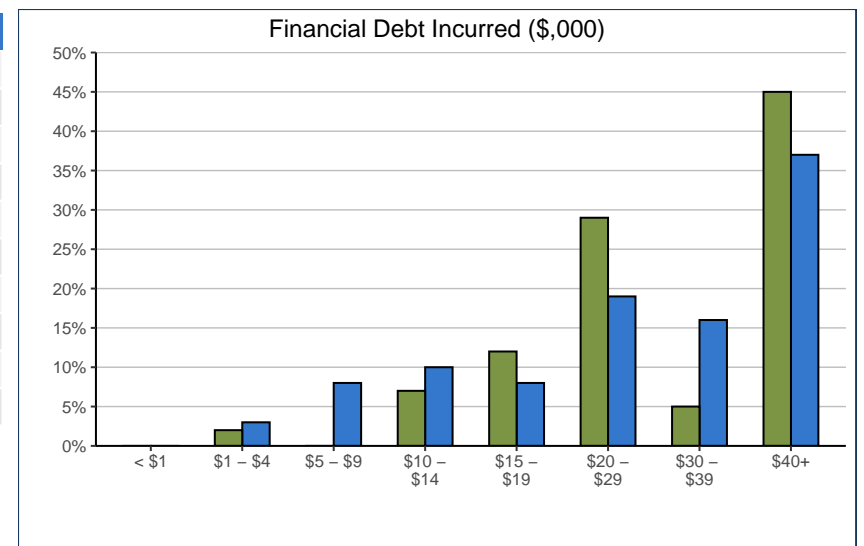
Financial Debt Amount:*	14.1901		SYSTEM	
< $1,000	0	0%	4	0%
$1,000 to $4,999	1	2%	85	3%
$5,000 to $9,999	0	0%	219	8%
$10,000 to $14,999	3	7%	298	10%
$15,000 to $19,999	5	12%	233	8%
$20,000 to $29,999	12	29%	545	19%
$30,000 to $39,999	2	5%	455	16%
$40,000 or More	19	45%	1,064	37%
Total	42	100%	2,903	100%
Median Financial Debt ($)	29,500		30,000	

* Includes only cases where financial debt was incurred

Financial Debt Incurred ($,000)
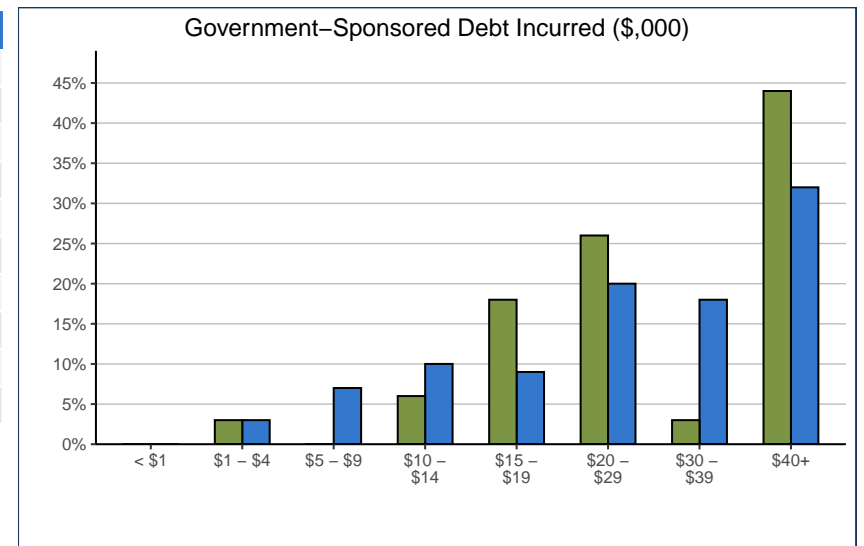
Gov't–Sponsored Student Loan Debt Amount:*	14.1901		SYSTEM	
< $1,000	0	0%	6	0%
$1,000 to $4,999	1	3%	66	3%
$5,000 to $9,999	0	0%	156	7%
$10,000 to $14,999	2	6%	219	10%
$15,000 to $19,999	6	18%	189	9%
$20,000 to $29,999	9	26%	424	20%
$30,000 to $39,999	1	3%	394	18%
$40,000 or More	15	44%	687	32%
Total	34	100%	2,141	100%
Median Gov't–Sponsored Loan Debt ($)	28,000		30,000	

* Includes only cases where government–sponsored debt was incurred

Government–Sponsored Debt Incurred ($,000)
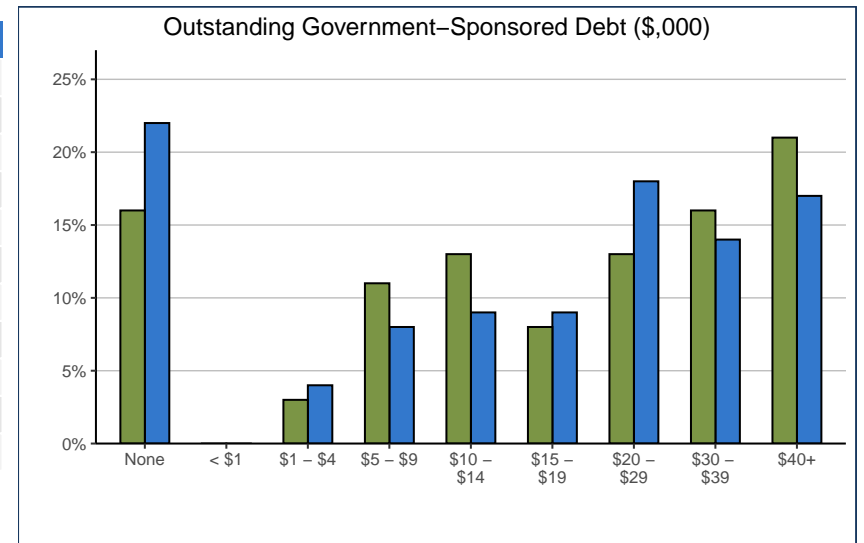
Gov't–Sponsored Loan Debt Outstanding:*	14.1901		SYSTEM	
None – Loan repaid in full	6	16%	524	22%
< $1,000	0	0%	9	0%
$1,000 to $4,999	1	3%	103	4%
$5,000 to $9,999	4	11%	189	8%
$10,000 to $14,999	5	13%	213	9%
$15,000 to $19,999	3	8%	208	9%
$20,000 to $29,999	5	13%	447	18%
$30,000 to $39,999	6	16%	330	14%
$40,000 or More	8	21%	406	17%
Total	38	100%	2,429	100%
Median Gov't–Sponsored Loan Debt Outstanding** ($)	23,500		24,000	

* 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

Outstanding Government–Sponsored Debt ($,000)