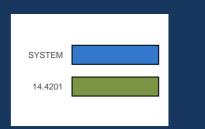


B.C. Baccalaureate Outcomes 2022 Survey of 2020 Baccalaureate Graduates

Detailed Summary of Survey Results

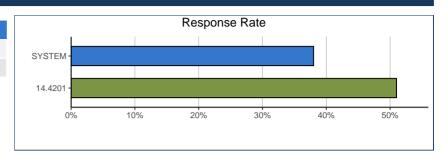
All Institutions

14.4201: Mechatronics, robotics, and automation engineering



RESPONSE RATE

| Survey Response Rate: | 14.4 | 1201 | SYS | TEM |
|---------------------------------------|------|------|--------|------|
| Baccalaureate Graduates Survey Cohort | 76 | 100% | 24,752 | 100% |
| Survey Respondents and Response Rate | 39 | 51% | 9,423 | 38% |

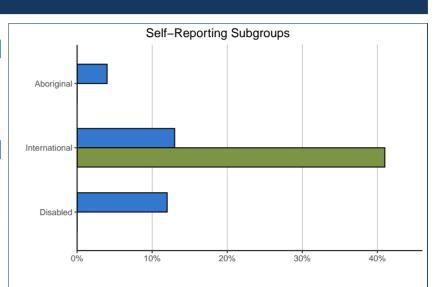


DEMOGRAPHIC INFORMATION

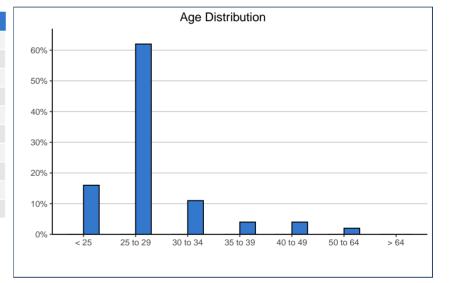
| Self-Reporting Subgroups: | 14.4201 | | SYSTEM | |
|---------------------------|---------|-----|--------|-----|
| Disabled | ~ | ~ | 1,082 | 12% |
| International | 16 | 41% | 1,205 | 13% |
| Aboriginal | ~ | ~ | 357 | 4% |

| Gender:* | 14.4 | 1201 | SYSTEM | |
|----------|------|------|--------|------|
| Male | ~ | ~ | 3,744 | 40% |
| Female | ~ | ~ | 5,675 | 60% |
| Total | 39 | 100% | 9,419 | 100% |

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

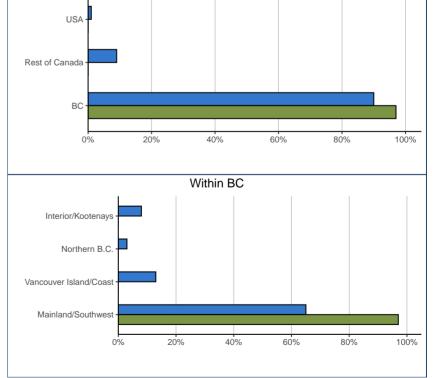


| Age (at time of survey): | 14.4201 | | SYSTEM | |
|--------------------------|---------|------|--------|------|
| < 25 | ~ | ~ | 1,496 | 16% |
| 25 to 29 | ~ | ~ | 5,860 | 62% |
| 30 to 34 | ~ | ~ | 1,035 | 11% |
| 35 to 39 | 0 | 0% | 421 | 4% |
| 40 to 49 | 0 | 0% | 397 | 4% |
| 50 to 64 | 0 | 0% | 186 | 2% |
| > 64 | 0 | 0% | 22 | 0% |
| Total | 39 | 100% | 9,417 | 100% |
| Median Age | 26 | | 26 | |
| Average (mean) Age | 27 | | 28 | |



Place of Residence

| Place of Residence (at time of survey): | 1.4 | 4204 | SYSTEM | |
|---|---------|------|--------|------|
| Place of Residence (at time of survey): | 14.4201 | | SYSTEM | |
| BC – Mainland/Southwest | 34 | 97% | 5,472 | 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 | 34 | 97% | 7,526 | 90% |
| Canada – Alberta | 0 | 0% | 343 | 4% |
| Canada – Ontario | ~ | ~ | 280 | 3% |
| Canada – Other | 0 | 0% | 176 | 2% |
| U.S.A. | 0 | 0% | 80 | 1% |
| Non-BC Subtotal | ~ | ~ | 879 | 10% |
| Total | ~ | ~ | 8,405 | 100% |





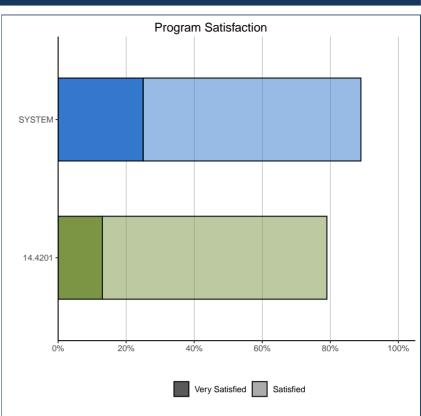


EDUCATION EVALUATION AND SKILL DEVELOPMENT

| Program Satisfaction: | 14.4201 | | SYS | TEM |
|-----------------------|---------|------|-------|------|
| Very Satisfied | 5 | 13% | 2,332 | 25% |
| Satisfied | 25 | 66% | 5,914 | 64% |
| Dissatisfied | 7 | 18% | 831 | 9% |
| Very Dissatisfied | 1 | 3% | 188 | 2% |
| Total | 38 | 100% | 9,265 | 100% |

| Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work: | 14.4201 | | SYSTEM | |
|---|---------|------|--------|------|
| Very Useful | 9 | 25% | 3,011 | 38% |
| Somewhat Useful | 21 | 58% | 3,664 | 47% |
| Not Very Useful | 4 | 11% | 886 | 11% |
| Not at All Useful | 2 | 6% | 283 | 4% |
| Total | 36 | 100% | 7,844 | 100% |
| | _ | | | |

| Took upgrading, access, bridging, or other preparatory courses during or prior to studies: | 14. | 14.4201 | | SYSTEM | | |
|--|-----|---------|-------|--------|--|--|
| Yes | 2 | 5% | 902 | 10% | | |
| No | 36 | 95% | 8,298 | 90% | | |



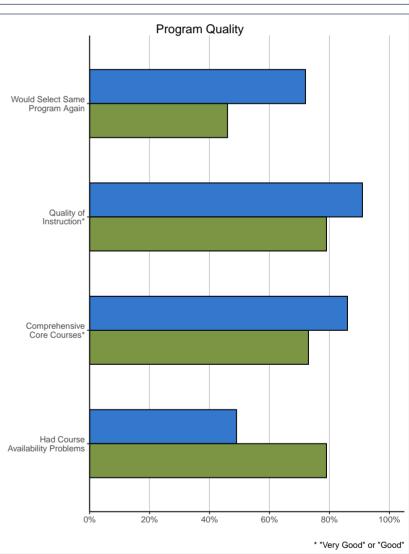
| Would select the same program again: | 14.4201 | | SYSTEM | |
|--------------------------------------|---------|-----|--------|-----|
| Yes | 16 | 46% | 5,963 | 72% |
| No | 19 | 54% | 2,334 | 28% |

| Quality of Instruction: | 14.4 | 4201 | SYS | TEM |
|-------------------------|------|------|-------|------|
| Very Good | 3 | 8% | 2,498 | 27% |
| Good | 27 | 71% | 6,007 | 64% |
| Poor | 7 | 18% | 685 | 7% |
| Very Poor | 1 | 3% | 131 | 1% |
| Total | 38 | 100% | 9,321 | 100% |

| Comprehensiveness of Core Courses: | 14. | 14.4201 | | SYSTEM | |
|------------------------------------|-----|---------|-------|--------|--|
| Very Good | 7 | 18% | 2,303 | 25% | |
| Good | 21 | 55% | 5,649 | 61% | |
| Poor | 10 | 26% | 1,073 | 12% | |
| Very Poor | 0 | 0% | 172 | 2% | |
| Total | 38 | 100% | 9.197 | 100% | |

| Course Availability: | 14.4 | 1201 | SYSTEM | | |
|--|------|------|--------|-----|--|
| Encountered course availability problems | 31 | 79% | 4,485 | 49% | |

| Financial Constraints: | 14.4201 | | SYS | TEM |
|---|---------|-----|-------|-----|
| Had to interrupt studies for financial reasons | 4 | 10% | 987 | 11% |
| Had to take program part-time for financial reasons | 5 | 13% | 1,629 | 18% |



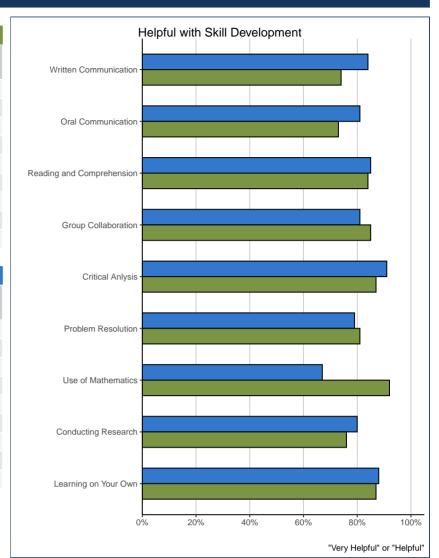




SKILL DEVELOPMENT

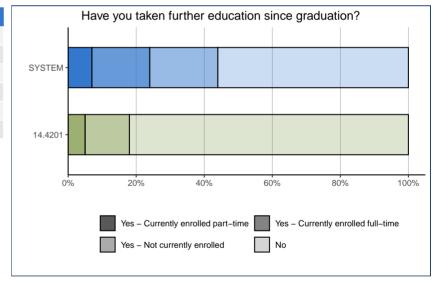
| | | | 14.4201 | | |
|---|-----------------|---------|---------------------|-----------------------|---------|
| Skill Development: How helpful was institution? | Very Helpful | Helpful | Not Very Helpful | Not at All Helpful | # Resp. |
| Written Communication | 13% | 61% | 18% | 8% | 38 |
| Oral Communication | 5% | 68% | 21% | 5% | 38 |
| Reading and Comprehension | 18% | 66% | 13% | 3% | 38 |
| Group Collaboration | 31% | 54% | 15% | 0% | 39 |
| Critical Anlysis | 41% | 46% | 13% | 0% | 39 |
| Problem Resolution | 32% | 49% | 14% | 5% | 37 |
| Use of Mathematics | 66% | 26% | 3% | 5% | 38 |
| Conducting Research | 46% | 30% | 22% | 3% | 37 |
| Learning on Your Own | 50% | 37% | 8% | 5% | 38 |

| | | | 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 |

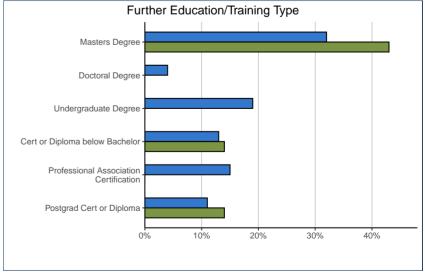


FURTHER EDUCATION

| Took further education since 2020 graduation: | 14.4201 | | SYS | TEM |
|---|---------|------|-------|------|
| Yes | 7 | 18% | 4,119 | 44% |
| Not currently enrolled | 5 | 13% | 1,831 | 20% |
| Currently enrolled full-time | 2 | 5% | 1,602 | 17% |
| Currently enrolled part-time | 0 | 0% | 637 | 7% |
| No | 32 | 82% | 5,244 | 56% |
| Total | 39 | 100% | 9,363 | 100% |



| Type of Formal Post–Secondary Education: | 14. | 14.4201 | | TEM |
|---|-----|---------|-------|------|
| Masters Degree | 3 | 43% | 1,307 | 32% |
| Doctoral Degree | 0 | 0% | 167 | 4% |
| Another Undergraduate Degree | 0 | 0% | 789 | 19% |
| Certificate or Diploma below Bachelor level | 1 | 14% | 527 | 13% |
| Professional Association Certification | 0 | 0% | 603 | 15% |
| Postgraduate Certificate or Diploma | 1 | 14% | 431 | 11% |
| Other | 2 | 29% | 236 | 6% |
| Total | 7 | 100% | 4,060 | 100% |

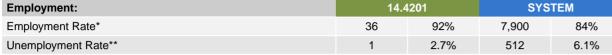




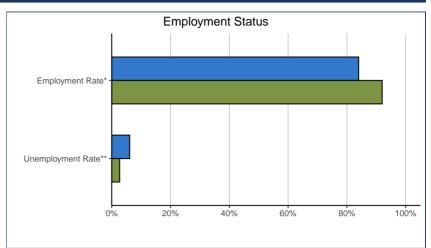


EMPLOYMENT

| Labour Fource Status: | 14.4201 | | SYS | TEM |
|---|---------|------|--------|------|
| In Labour Force (working or seeking work) | 37 | 95% | 8,412 | 91% |
| Not in Labour Force | 2 | 5% | 857 | 9% |
| Total | 39 | 100% | 9,269 | 100% |
| | | | | |
| Employment: | 14.4201 | | SYSTEM | |



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

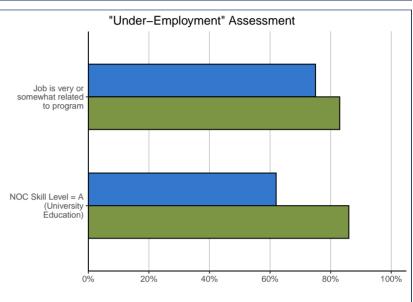


| Status of Graduates NOT in Labour Force: | 14.4201 | | SYSTEM | |
|--|---------|------|--------|------|
| Attending School FT | 1 | 50% | 597 | 70% |
| Attending School PT | 0 | 0% | 23 | 3% |
| Other | 1 | 50% | 237 | 28% |
| Total NOT in Labour Force | 2 | 100% | 857 | 100% |

| Primary Employment Type: | 14.4201 | | SYS | TEM |
|--------------------------|---------|------|-------|------|
| Paid worker | 34 | 97% | 7,394 | 94% |
| Self-employed | 1 | 3% | 493 | 6% |
| Total | 35 | 100% | 7,887 | 100% |

| Job Characteristics: | 14.4201 | | SYS | TEM |
|---|---------|------|-------|-----|
| I hold more than one job* | 4 | 11% | 1,463 | 19% |
| My main job is full-time (>= 30 hours per week)** | 34 | 100% | 6,655 | 89% |

^{*}Of total Employed



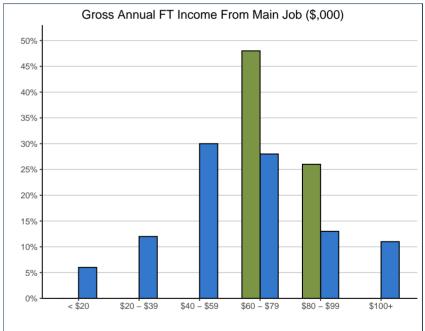
| How related is your main job to your program? | 14.4201 | | SYS | TEM |
|---|---------|------|-------|------|
| Very Related | 6 | 17% | 3,386 | 43% |
| Somewhat Related | 24 | 67% | 2,530 | 32% |
| Not Very Related | 3 | 8% | 1,013 | 13% |
| Not at All Related | 3 | 8% | 954 | 12% |
| Total | 36 | 100% | 7,883 | 100% |

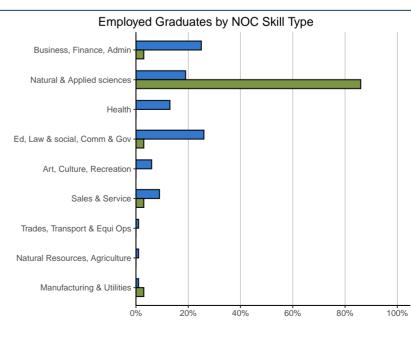
| "Under-employment" Assessment: | 14.4201 | | SYS | TEM |
|---|---------|-----|-------|-----|
| Job is very or somewhat related to program | 30 | 83% | 5,916 | 75% |
| NOC Skill Level = A (University Education)* | 25 | 86% | 4,631 | 62% |

^{*}Of total valid responses

| Gross Annual Income from Main Job:* | 14. | 14.4201 | | TEM |
|--|--------|---------|--------|------|
| Less than \$20,000 | ~ | ~ | 328 | 6% |
| \$20,000 to \$39,999 | ~ | ~ | 725 | 12% |
| \$40,000 to \$59,999 | ~ | ~ | 1,773 | 30% |
| \$60,000 to \$79,999 | 13 | 48% | 1,673 | 28% |
| \$80,000 to \$99,999 | 7 | 26% | 799 | 13% |
| \$100,000 and Above | ~ | ~ | 659 | 11% |
| Total | 27 | 100% | 5,957 | 100% |
| Median Annual Income (full-time) (\$) | 71,610 | | 63,000 | |
| Average Annual Income (full-time) (\$) | 71,441 | | 70,455 | |
| *Where data provided | | | | |

| NOC Skill Type of Main Job: | 14. | 14.4201 | | TEM |
|---|-----|---------|-------|------|
| Business, finance & administration | 1 | 1 3% | | 25% |
| Natural & applied sciences & related | 25 | 86% | 1,422 | 19% |
| Health | | 0% | 933 | 13% |
| Education, law and social, community & government | 1 | 3% | 1,946 | 26% |
| Art, culture, recreation & sport | 0 | 0% | 438 | 6% |
| Sales & service | 1 | 3% | 658 | 9% |
| Trades, transport & equipment operators & related | 0 | 0% | 104 | 1% |
| Natural resources, agriculture & related production | 0 | 0% | 42 | 1% |
| Manufacturing & utilities | 1 | 3% | 39 | 1% |
| Total | 29 | 100% | 7,426 | 100% |





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

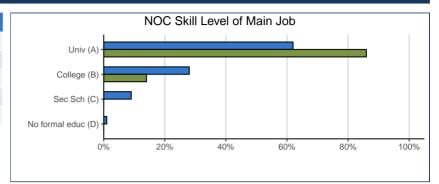
^{**}Of those who provided data on hours/week worked





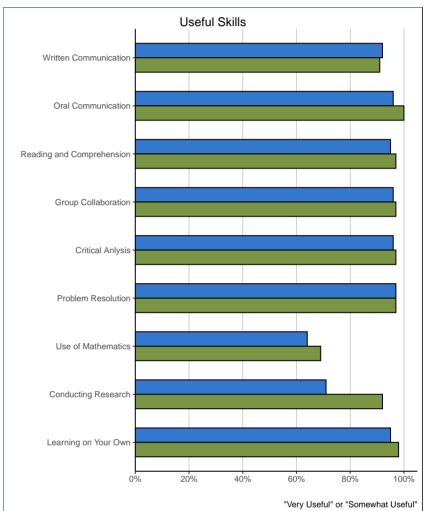
EMPLOYMENT, continued

| NOC Skill Level of Main Job: | 14.4201 | | SYSTEM | |
|---|---------|------|--------|------|
| A. University education | 25 86% | | 4,631 | 62% |
| B. College education/trade apprenticeship | 4 | 14% | 2,082 | 28% |
| C. Secondary school + job-specific training | 0 | 0% | 647 | 9% |
| D. No formal education | 0 | 0% | 86 | 1% |
| Total | 29 | 100% | 7,446 | 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 | 60% | 31% | 3% | 6% | 35 |
| Oral Communication | 89% | 11% | 0% | 0% | 35 |
| Reading and Comprehension | 77% | 20% | 0% | 3% | 35 |
| Group Collaboration | 83% | 14% | 3% | 0% | 35 |
| Critical Anlysis | 80% | 17% | 0% | 3% | 35 |
| Problem Resolution | 80% | 17% | 0% | 3% | 35 |
| Use of Mathematics | 40% | 29% | 23% | 9% | 35 |
| Conducting Research | 49% | 43% | 3% | 6% | 35 |
| Learning on Your Own | 89% | 9% | 3% | 0% | 35 |

| | 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 14.4201 | Graduates: | 14.4201 |
|--------------|-----------------------------|--------------------------|------------------------------|
| NOC | NOC Skill Level | Description | % Employed FT in this Occ.** |
| 2132 | A | Mechanical engineers | 22% |
| XXXX | 0 | Unclassified occupations | 14% |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |

^{*} 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% |
| 1111 | Α | Financial auditors and accountants | 4% |
| XXXX | 0 | Unclassified occupations | 3% |
| 2173 | Α | Software engineers and designers | 3% |
| 4032 | Α | 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 | Α | Secondary school teachers | 2% |
| 1221 | В | Administrative officers | 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 | 11 | 11 29% | | 31% |
| Employment while studying | | 45% | 4,716 | 51% |
| Family/Friends | 27 | 71% | 5,423 | 59% |
| Personal bank loans | 1 | 3% | 600 | 7% |
| Government student loans | 7 | 18% | 3,008 | 33% |
| Scholarships/Bursaries/Grants | 9 | 24% | 2,803 | 31% |
| Other | 16 | 42% | 1,997 | 22% |
| Total | 38 | | 9,180 | |

^{*} Percentage of respondents who identified this source

| Financial Debt Incurred to Finance Bac. Ed.:* | 14.4201 | | SYSTEM | |
|---|---------|-----|--------|-----|
| Incurred any form of financial debt | 13 | 34% | 4,031 | 44% |
| Incurred government-sponsored student loan debt | 8 | 21% | 3,331 | 36% |

^{*} Percentage of respondents who provided data



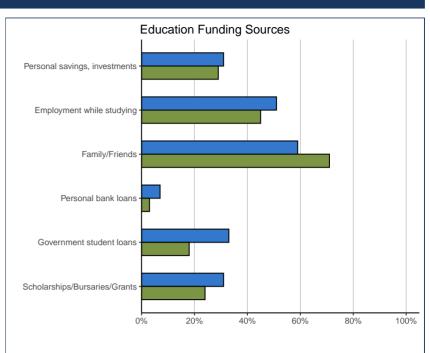
^{*} Includes only cases where financial debt was incurred

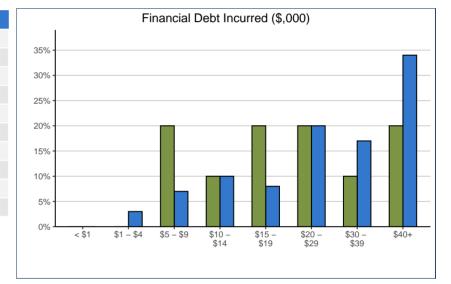


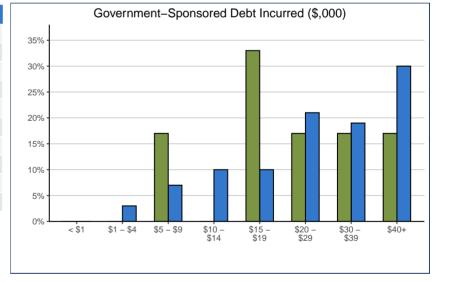
^{*} Includes only cases where government-sponsored debt was incurred

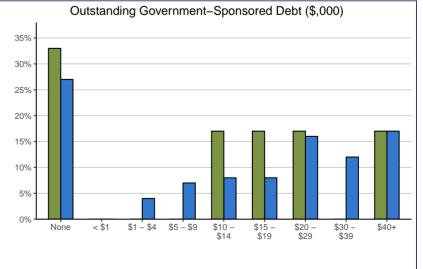


^{*} Includes only cases where government–sponsored debt was incurred, and valid "amount remaining" was provided









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