B.C. Baccalaureate Outcomes
2016 Survey of 2014 Baccalaureate Graduates

BCStudent Outcomes
Shaping Post-Secondary Education

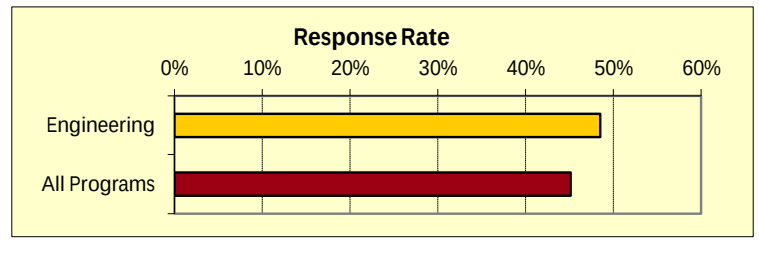
Detailed Summary of Survey Results
All Programs compared with
Engineering and Applied Sciences

All Programs
Engineering

RESPONSE RATE

1.

Survey Response Rate:	Engineering		All Programs	
2014 Baccalaureate Graduates Survey Cohort	2,637		23,642	
Survey Respondents and Response Rate	1,279	49%	10,669	45%



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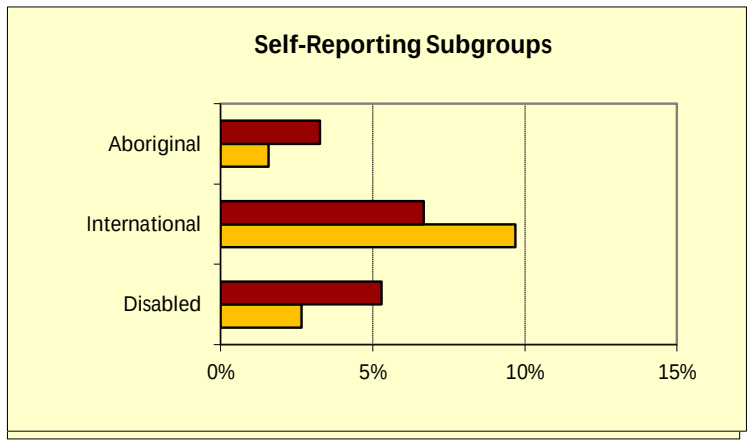
DEMOGRAPHIC INFORMATION

2.

Self-Reporting Subgroups:	Engineering		All Programs	
Disabled	34	3%	565	5%
International	124	10%	713	7%
Aboriginal	18	2%	320	3%

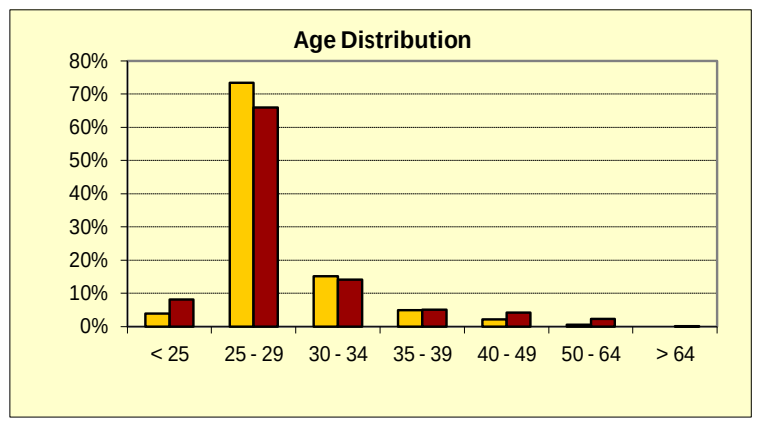


3.

Gender:	Engineering		All Programs	
Male	910	71%	4,322	41%
Female	369	29%	6,347	59%
Total	1,279	100%	10,669	100%

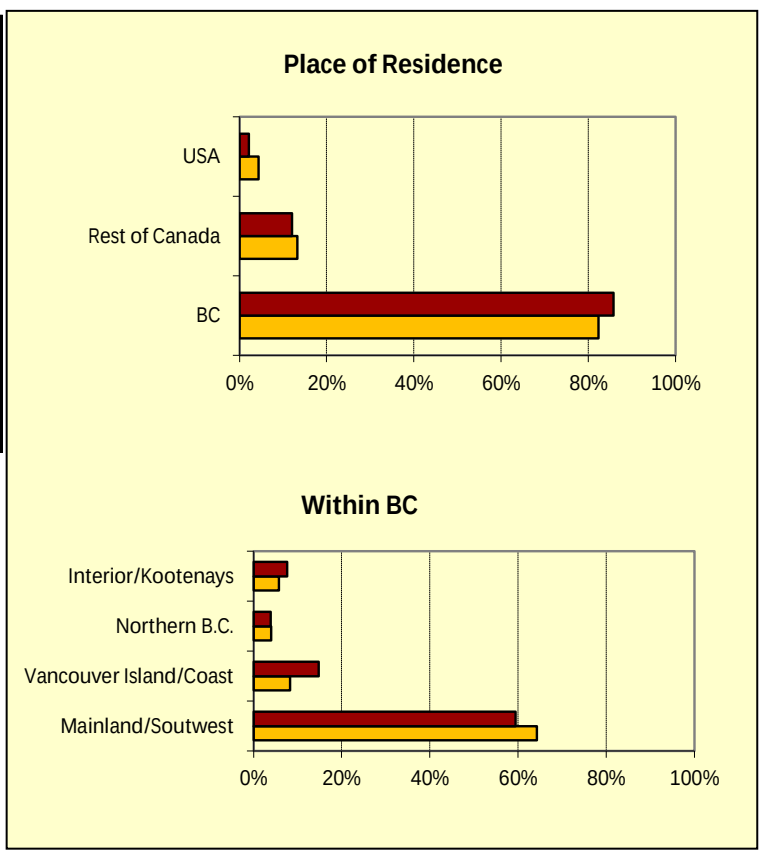
4.

Age (at time of survey):	Engineering		All Programs	
< 25	49	4%	864	8%
25 to 29	917	73%	6,960	66%
30 to 34	189	15%	1,486	14%
35 to 39	61	5%	533	5%
40 to 49	27	2%	449	4%
50 to 64	7	1%	238	2%
> 64	~	~	12	0%
Total	1,250	100%	10,542	100%
Mean Age:	28		29	



5.

Place of Residence (at time of survey):	Engineering		All Programs	
BC - Mainland/Southwest	670	64%	5,140	59%
BC - Vancouver Island/Coast	86	8%	1,279	15%
BC - Northern B.C.	42	4%	340	4%
BC - Interior/Kootenays	60	6%	660	8%
BC Subtotal	858	82%	7,419	86%
Canada - Alberta	81	8%	506	6%
Canada - Ontario	36	3%	315	4%
Canada - Other	21	2%	223	3%
U.S.A.	46	4%	185	2%
Non-BC Subtotal	184	18%	1,229	14%
Total	1,042	100%	8,648	100%



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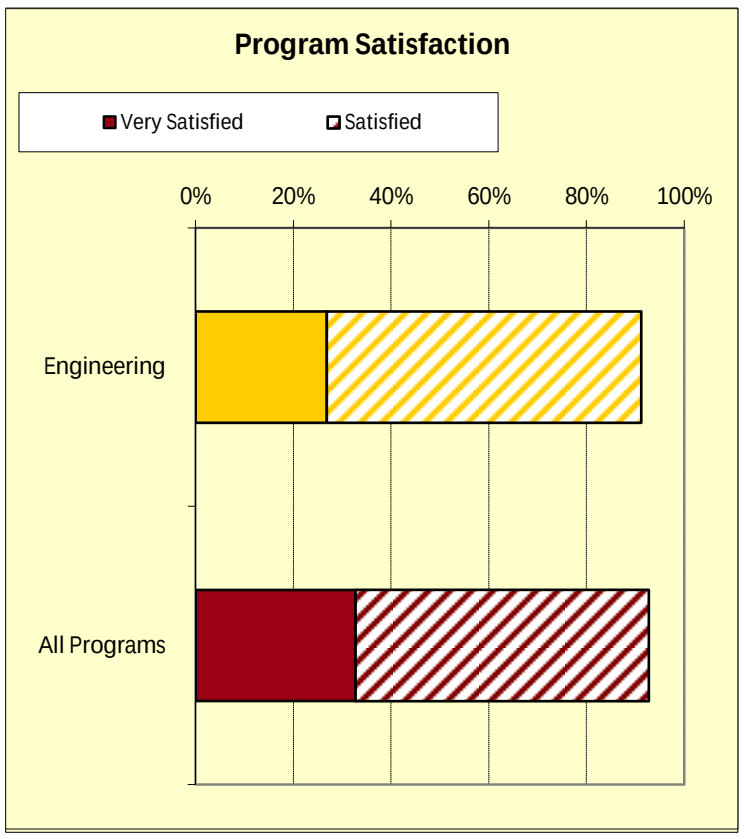
All Programs
Engineering

EDUCATION EVALUATION AND SKILL DEVELOPMENT

6.

Program Satisfaction:	Engineering		All Programs	
Very Satisfied	341	27%	3,458	33%
Satisfied	817	64%	6,338	60%
Dissatisfied	101	8%	644	6%
Very Dissatisfied	11	1%	124	1%
Total	1270	100%	10564	100%



7.

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	Engineering		All Programs	
Very Useful	403	37%	3,634	42%
Somewhat Useful	541	50%	3,794	44%
Not Very Useful	119	11%	919	11%
Not at All Useful	26	2%	373	4%
Total	1,089	100%	8,720	100%

8.

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	Engineering		All Programs	
Yes	135	11%	964	9%
No	1,120	89%	9,529	91%

9.

Select the same program again:	Engineering		All Programs	
Yes	912	77%	7,424	75%
No	274	23%	2,497	25%

10.

Quality of Instruction:	Engineering		All Programs	
Very Good	283	22%	3,393	32%
Good	867	68%	6,563	62%
Poor	106	8%	555	5%
Very Poor	12	1%	70	1%
Total	1,268	100%	10,581	100%

11.

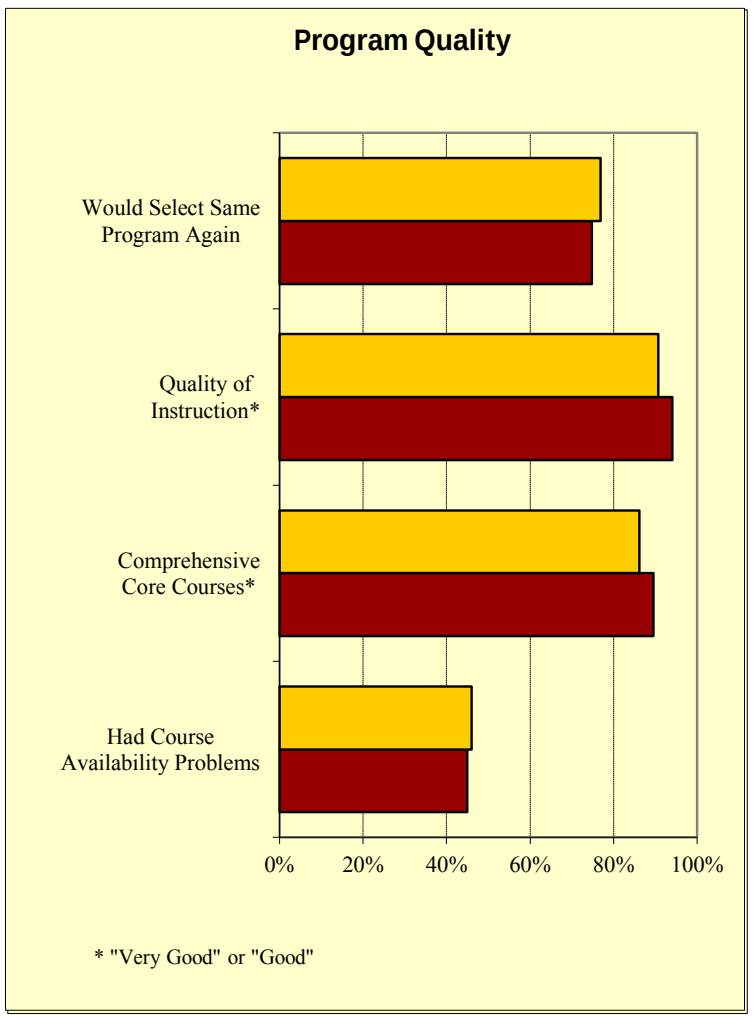
Comprehensiveness of Core Courses:	Engineering		All Programs	
Very Good	294	23%	2,946	28%
Good	793	63%	6,395	61%
Poor	159	13%	989	9%
Very Poor	15	1%	103	1%
Total	1,261	100%	10,433	100%

12.

Course Availability:	Engineering		All Programs	
Encountered course availability problems	580	46%	4,711	45%

13.

Financial Constraints:	Engineering		All Programs	
Had to interrupt studies for financial reasons	118	9%	1,436	14%
Had to take program part-time for financial reasons	183	14%	2,208	21%



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All Programs compared with Engineering and Applied Sciences

All Programs
Engineering

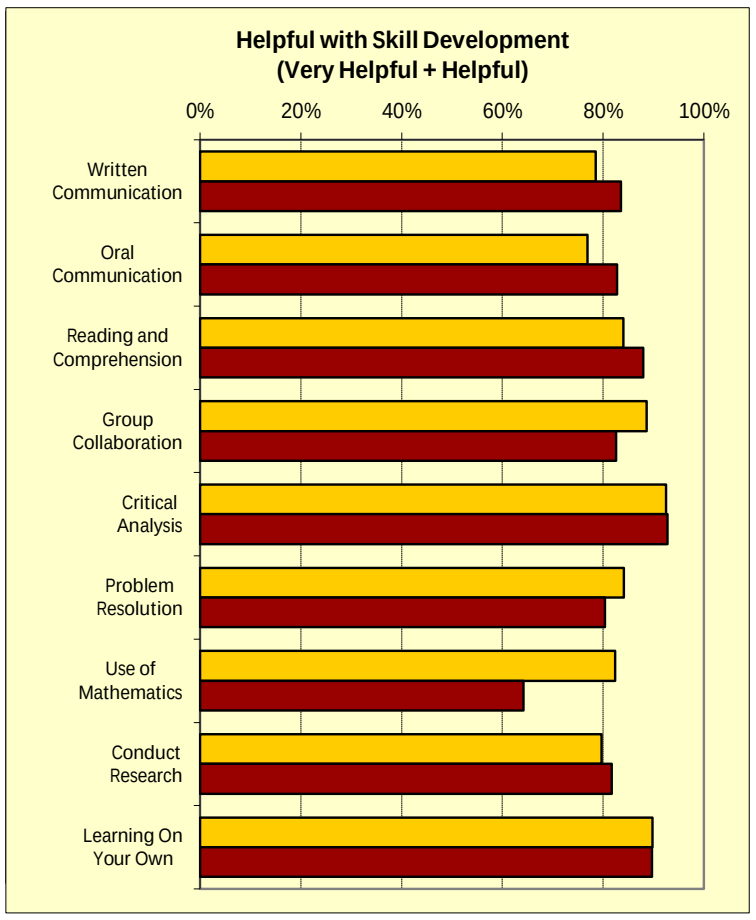
SKILL DEVELOPMENT

14a.

Skill Development: How helpful was institution?	Engineering				
	Very Helpful	Helpful	Not Very Helpful	Not at all Helpful	# Resp.
Written Communication	19%	60%	19%	2%	1,236
Oral Communication	17%	59%	21%	2%	1,249
Reading and Comprehension	21%	63%	15%	1%	1,236
Group Collaboration	33%	56%	10%	1%	1,272
Critical Analysis	41%	51%	7%	0%	1,274
Problem Resolution	24%	61%	15%	1%	1,262
Use of Mathematics	32%	50%	16%	2%	1,215
Conducting Research	25%	55%	19%	2%	1,241
Learning On Your Own	37%	53%	9%	1%	1,269

14b.

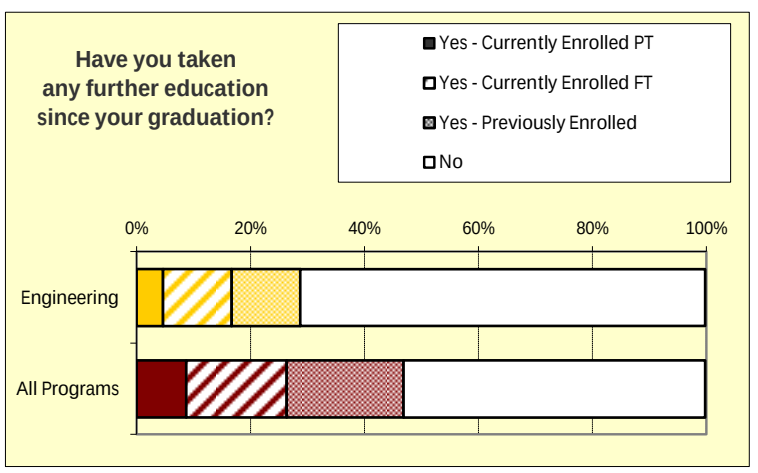
Skill Development: How helpful was institution?	All Programs				
	Very	Helpful	Not Very	Not at all	#
Written Communication	26%	57%	15%	2%	10,315
Oral Communication	24%	58%	16%	2%	10,467
Reading and Comprehension	30%	58%	11%	1%	10,400
Group Collaboration	30%	53%	15%	2%	10,491
Critical Analysis	44%	49%	7%	1%	10,598
Problem Resolution	22%	58%	18%	2%	10,331
Use of Mathematics	17%	47%	27%	9%	8,268
Conducting Research	30%	52%	16%	2%	10,194
Learning On Your Own	34%	56%	9%	1%	10,489



FURTHER EDUCATION

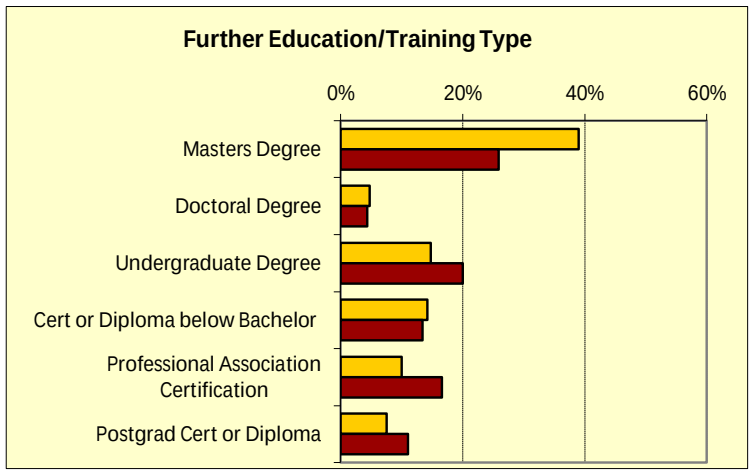
15a.

Took further education since 2014 graduation:	Engineering		All Programs	
Yes:	369	29%	5,002	47%
Not currently enrolled	153	12%	2,169	20%
Currently enrolled full-time	153	12%	1,865	18%
Currently enrolled part-time	59	5%	923	9%
No	905	71%	5,625	53%
Total	1,274	100%	10,627	100%



15b.

Type of Formal Post-Secondary Education:	Engineering		All Programs	
Masters Degree	140	39%	1,262	26%
Doctoral Degree	17	5%	213	4%
Another Undergraduate Degree	53	15%	975	20%
Certificate or Diploma below Bachelor level	51	14%	653	13%
Professional Association Certification	36	10%	809	17%
Postgraduate Certificate or Diploma	27	8%	538	11%
Other	35	10%	427	9%
Total	359	100%	4,877	100%



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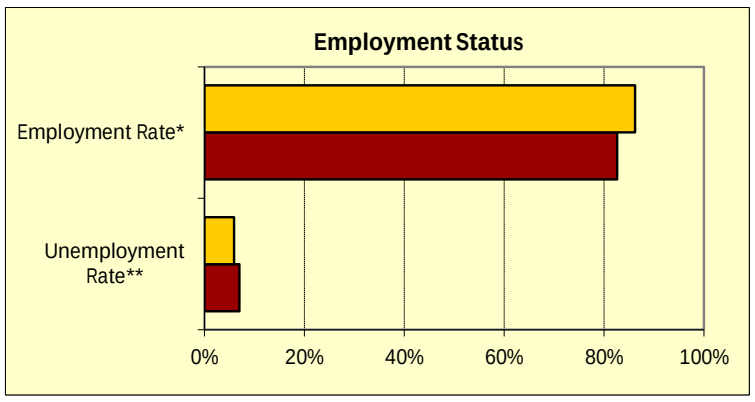
All Programs
Engineering

EMPLOYMENT

16.

Labour Force Status:	Engineering		All Programs	
In Labour Force (working or seeking work)	1,167	92%	9,421	89%
Not in Labour Force	103	8%	1,148	11%
Total	1,270	100%	10,569	100%



17.

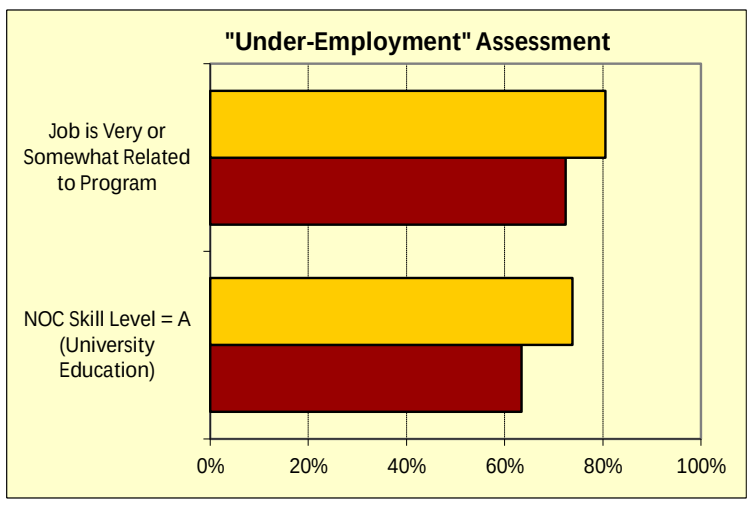
Employment:	Engineering		All Programs	
Employment Rate*	1,097	86%	8,760	83%
Unemployment Rate**	70	6.0%	661	7.0%

* Total employed divided by total number of respondents

** Total unemployed divided by total number in Labour Force

18.

Status of Graduates NOT in Labour Force:	Engineering		All Programs	
Attending School FT	78	76%	833	73%
Attending School PT	2	2%	37	3%
Other	23	22%	278	24%
Total NOT in Labour Force	103	100%	1,148	100%



19.

Primary Employment Type:	Engineering		All Programs	
Paid worker	1,030	94%	8,137	93%
Self-employed	63	6%	593	7%
Total	1,093	100%	8,730	100%

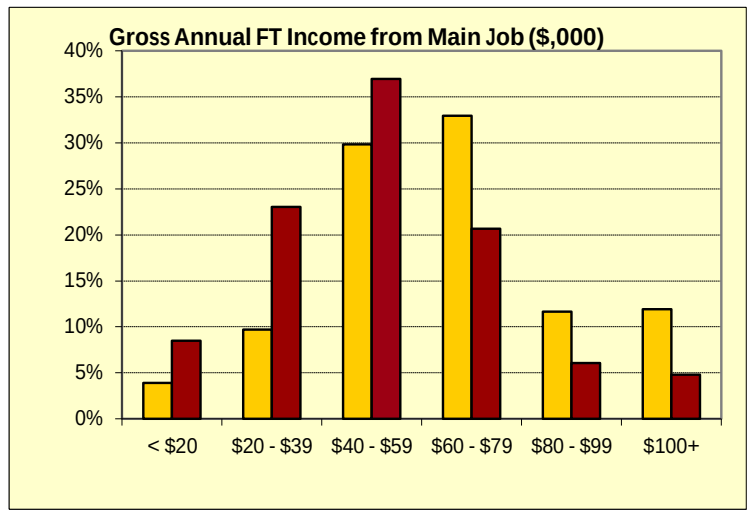
20.

Job Characteristics:	Engineering		All Programs	
I hold more than one job	97	9%*	1,706	19%*
My main job is full-time (>= 30 hours per week)	1,001	91%**	7,159	82%**

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

21.

How related is your main job to your program?	Engineering		All Programs	
Very Related	491	45%	3,752	43%
Somewhat Related	390	36%	2,585	30%
Not Very Related	123	11%	1,123	13%
Not At All Related	90	8%	1,283	15%
Total	1,094	100%	8,743	100%



22.

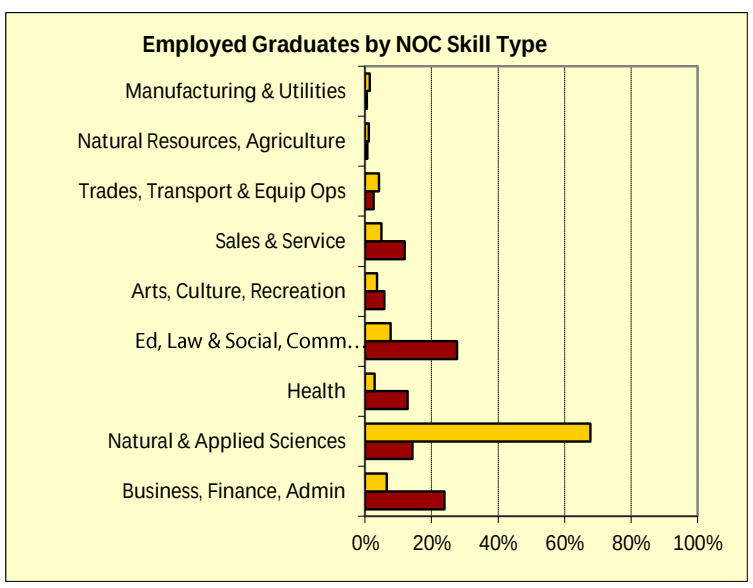
"Under-employment" Assessment:	Engineering		All Programs	
Job is very or somewhat related to program	881	81%	6,337	72%
NOC Skill Level = A (University Education)*	774	74%	5,264	63%

* Of total valid responses

23.

Gross Annual Income from Main Job:*	Engineering		All Programs	
Less than $20,000	32	4%	535	9%
$20,000 to $39,999	79	10%	1,446	23%
$40,000 to $59,999	243	30%	2,321	37%
$60,000 to $79,999	268	33%	1,299	21%
$80,000 to $99,999	95	12%	381	6%
$100,000 and Above	97	12%	301	5%
Total	814	100%	6,283	100%
Median Annual Income (full-time)	$63,000		$50,000	
Average Annual Income (full-time)	$70,319		$55,847	

* Where data provided



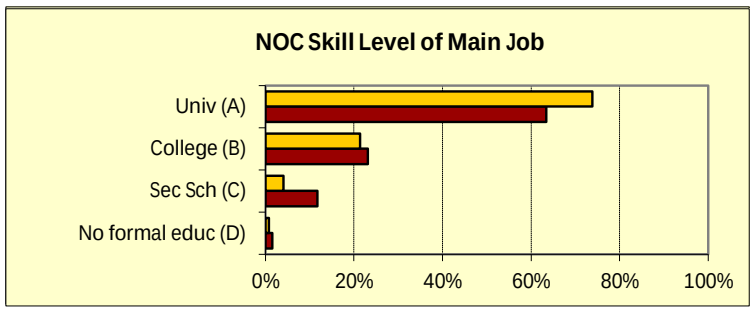
24.

NOC Skill Type of Main Job:	Engineering		All Programs	
Business, finance & administration	67	6%	1,966	24%
Natural & applied sciences & related	704	68%	1,170	14%
Health	29	3%	1,054	13%
Education, law and social, community & government	80	8%	2,277	28%
Art, culture, recreation & sport	38	4%	470	6%
Sales & service	51	5%	980	12%
Trades, transport & equipment operators & related	43	4%	208	3%
Natural resources, agriculture & related production	12	1%	55	1%
Manufacturing & utilities	15	1%	49	1%
Total	1,039	100%	8,229	100%

EMPLOYMENT, continued

25.

NOC Skill Level of Main Job:	Engineering		All Programs	
A. University education	774	74%	5,264	63%
B. College education/trade apprenticeship	224	21%	1,920	23%
C. Secondary school + job-specific training	43	4%	978	12%
D. No formal education	8	1%	132	2%
Total	1,049	100%	8,294	100%

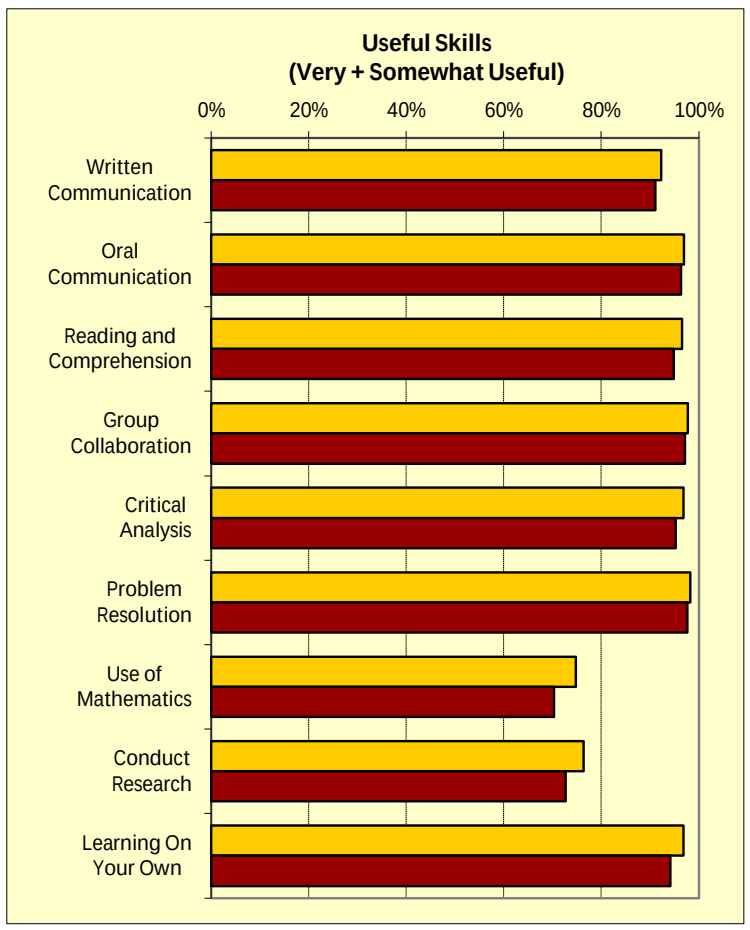


26a.

How useful are the following skills and abilities in doing your main job?	Engineering				
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	# Resp.
Written Communication	61%	32%	6%	2%	1,092
Oral Communication	76%	21%	2%	1%	1,092
Reading and Comprehension	71%	26%	3%	1%	1,092
Group Collaboration	81%	17%	2%	0%	1,093
Critical Analysis	79%	18%	2%	1%	1,093
Problem Resolution	82%	16%	1%	0%	1,091
Use of Mathematics Appropriate to Field	33%	42%	18%	7%	1,089
Ability to Conduct Research	36%	41%	17%	6%	1,086
Learning On Your Own	74%	23%	2%	1%	1,091

26b.

How useful are the following skills and abilities in doing your main job?	All Programs				
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	# Resp.
Written Communication	66%	25%	6%	3%	8,726
Oral Communication	78%	18%	3%	1%	8,731
Reading and Comprehension	72%	23%	4%	1%	8,733
Group Collaboration	81%	16%	2%	0%	8,729
Critical Analysis	77%	19%	3%	1%	8,728
Problem Resolution	80%	17%	2%	0%	8,728
Use of Mathematics Appropriate to Field	34%	36%	18%	11%	8,589
Ability to Conduct Research	37%	36%	17%	11%	8,638
Learning On Your Own	68%	26%	4%	2%	8,729



27a.

Top 10 Full-time Occupations of Engineering Graduates:			Engineering
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2174	A	Computer programmers and interactive media developers	11%
2173	A	Software engineers and designers	9%
2132	A	Mechanical engineers	7%
2131	A	Civil engineers	5%
2133	A	Electrical and electronics engineers	4%
XXXX	0	Unclassified occupations	3%
0711	A	Construction managers	3%
2147	A	Computer engineers (except software engineers and designers)	3%
2175	A	Web designers and developers	2%
2171	A	Information systems analysts and consultants	2%

* Data not displayed where n < 5 ** Percentages cited are of those for whom occupational data was provided, full-time and part-time

27b.

Top 10 Full-time Occupations of Graduates from All Programs:			All Programs
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
3012	A	Registered nurses and registered psychiatric nurses	7%
4032	A	Elementary school and kindergarten teachers	4%
1111	A	Financial auditors and accountants	4%
XXXX	0	Unclassified occupations	3%
4031	A	Secondary school teachers	2%
1123	A	Professional occupations in advertising, marketing and public relations	2%
4212	B	Social and community service workers	2%
2174	A	Computer programmers and interactive media developers	2%
2173	A	Software engineers and designers	1%
0621	A	Retail and wholesale trade managers	1%

* Data not displayed where n < 5 ** Percentages cited are of those for whom occupational data was provided, full-time and part-time

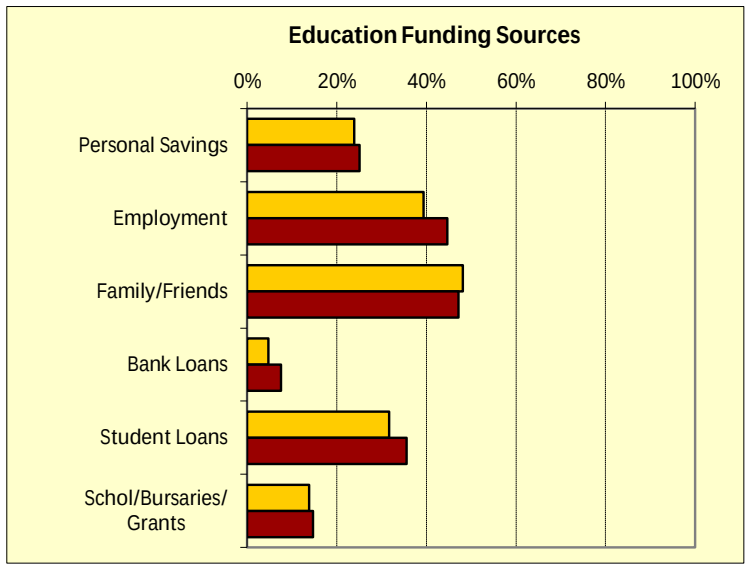
Detailed Summary of Survey Results
All Programs compared with Engineering and Applied Sciences

EDUCATION FINANCING

28.

Funding Sources (2 sources allowed):	Engineering		All Programs	
Personal Savings	298	24%*	2,624	25%*
Employment	492	39%*	4,673	45%*
Family/Friends	601	48%*	4,941	47%*
Bank Loans	59	5%*	794	8%*
Student Loans	396	32%*	3,723	36%*
Scholarships/Bursaries/Grants	173	14%*	1,541	15%*
Other	287	23%*	909	9%*
Total	1,249		10,465	

* Percentage of respondents who identified this source



29.

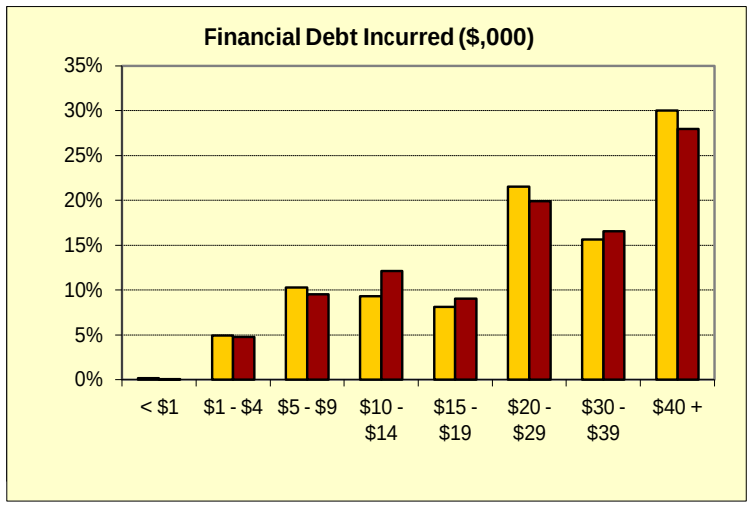
Financial Debt Incurred to Finance Bac. Ed.:	Engineering		All Programs	
Incurred any form of financial debt	506	44%*	4,444	47%
Incurred government-sponsored student loan debt	382	33%*	3,426	36%

* Percentage of respondents who provided data

30.

Financial Debt Amount:*	Engineering		All Programs	
< $1,000	1	0%	4	0%
$1,000 to $4,999	25	5%	213	5%
$5,000 to $9,999	52	10%	423	10%
$10,000 to $14,999	47	9%	538	12%
$15,000 to $19,999	41	8%	402	9%
$20,000 to $29,999	109	22%	885	20%
$30,000 to $39,999	79	16%	736	17%
$40,000 or More	152	30%	1,243	28%
Total	506	100%	4,444	100%
Median Financial Debt	$26,000		$25,000	

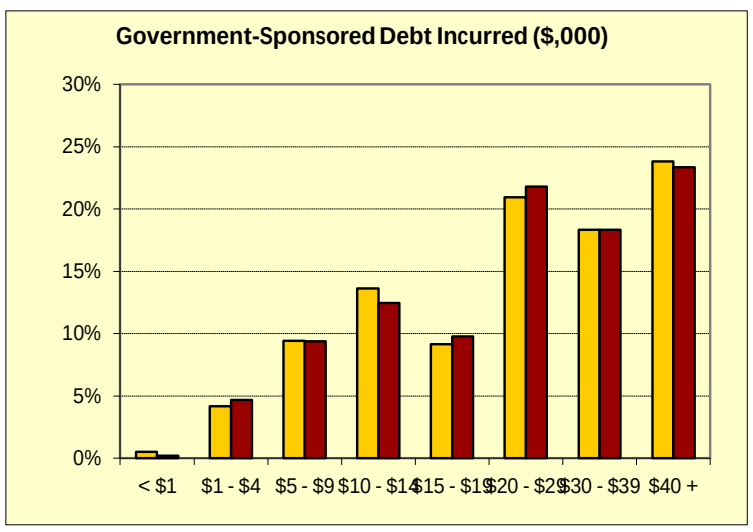
* Includes only cases where financial debt was incurred



31.

Gov't-Sponsored Student Loan Debt Amount:*	Engineering		All Programs	
< $1,000	2	1%	7	0%
$1,000 to $4,999	16	4%	160	5%
$5,000 to $9,999	36	9%	322	9%
$10,000 to $14,999	52	14%	427	12%
$15,000 to $19,999	35	9%	335	10%
$20,000 to $29,999	80	21%	747	22%
$30,000 to $39,999	70	18%	628	18%
$40,000 or More	91	24%	800	23%
Total	382	100%	3,426	100%
Median Gov't-Sponsored Student Loan Debt	$25,000		$25,000	

* Includes only cases where government-sponsored debt was incurred



32.

Gov't-Sponsored Loan Debt Outstanding:*	Engineering		All Programs	
None - Loan repaid in full	154	42%	855	26%
< $1,000	-	0%	7	0%
$1,000 to $4,999	15	4%	176	5%
$5,000 to $9,999	27	7%	293	9%
$10,000 to $14,999	23	6%	293	9%
$15,000 to $19,999	25	7%	272	8%
$20,000 to $29,999	44	12%	495	15%
$30,000 to $39,999	34	9%	373	12%
$40,000 or More	42	12%	468	14%
Total	364	100%	3,232	100%
Median Gov't-Sponsored Loan Debt Outstanding**	$21,500		$21,000	

* 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