



2018 Competition Statistics Discovery Grants, Research Tools and Instruments and Subatomic Physics Programs

Welcome to the NSERC Competition Statistics Package for the Discovery Grants (DG), Research Tools and Instruments (RTI) and Subatomic Physics (SAP) Programs.

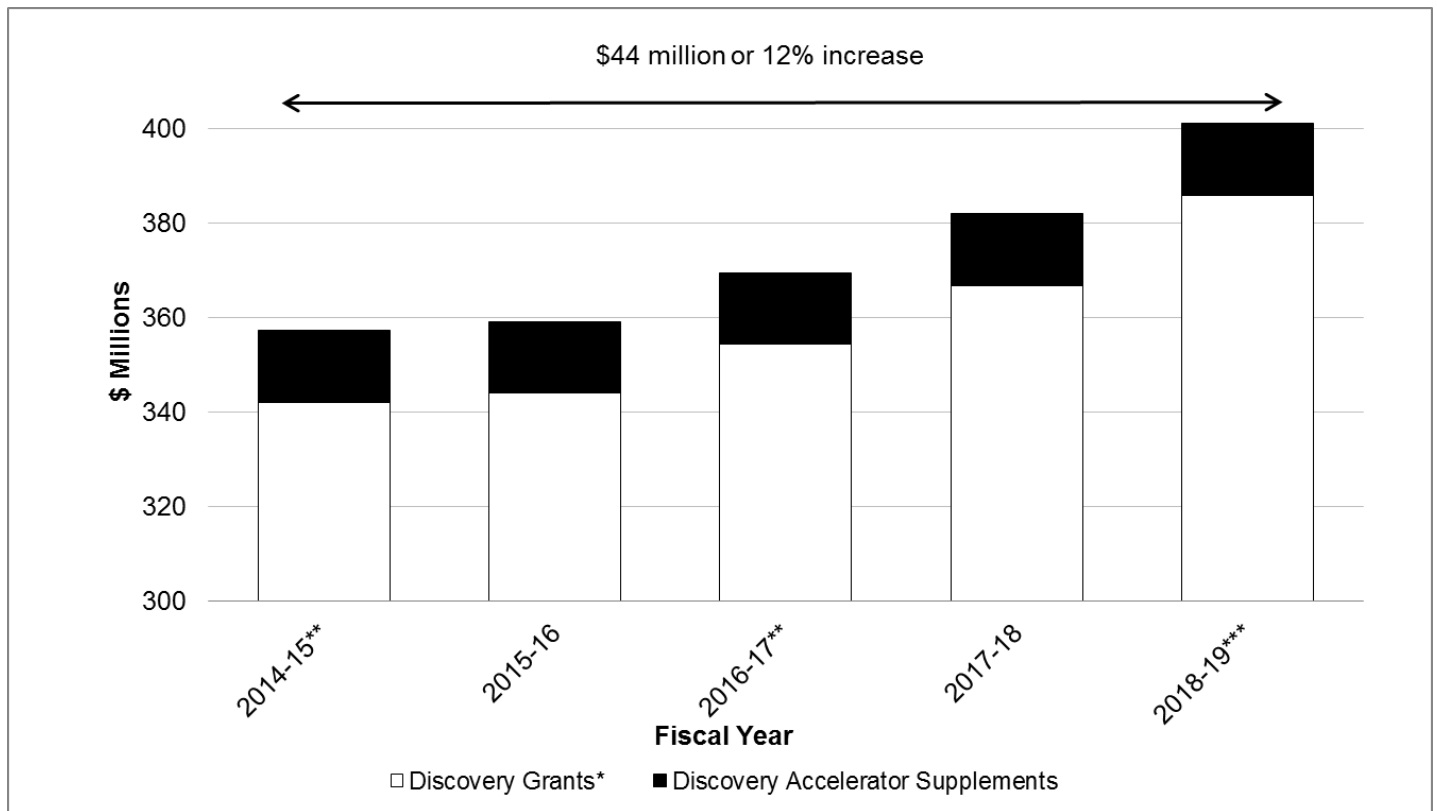
Notes on Data:

- The data used is from a point-in-time in our corporate database. The date used for this year is March 27th, 2018, with modifications to reflect additional funding received resulting from the 2018 Federal Budget.

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SECTION 1 – OVERALL STATISTICS

Figure 1 Expenditures in the Discovery Grants Program Elements, 2014-15 to 2018-19**



*Includes Discovery Grants (Individual and Team) and Subatomic Physics Discovery Grants (Individual, Team and Project).

**Includes additional funding received resulting from Federal Budget 2014, 2016 & 2018

***Projected Expenditures for 2018-2019

Table 1 Overall Comparative Statistics Discovery Grants Competitions, 2014-18

	2014*		2015		2016*		2017		2018*	
	Success Rate	Average Grant (\$)	Success Rate	Average Grant (\$)	Success Rate	Average Grant (\$)	Success Rate	Average Grant (\$)	Success Rate	Average Grant (\$)
Early Career Researchers (ECR)	70%	\$27,237	65%	\$26,120	75%	\$28,771	69%	\$25,409	64%	\$29,599
Established Researchers (ER)	64%	\$35,477	65%	\$32,903	65%	\$37,138	66%	\$34,948	67%	\$40,355

*Includes additional funding received resulting from Federal Budgets 2014, 2016 and 2018

Table 2 Number of Applications and Awards by Category of Applicants, 2014-18

Competition Year	Number of Applications			
	ECR	ER-R	ER-NHG	Total
2014*	427	1,647	1,060	3,134
2015	489	1,632	1,038	3,159
2016*	494	1,622	1,051	3,167
2017	562	1,636	1,042	3,240
2018*	677	1,635	901	3,213

Number of Awards ¹			
ECR	ER-R	ER-NHG	Total
298	1,328	407	2,033
317	1,342	400	2,059
369	1,333	392	2,094
385	1,360	409	2,154
433	1,366	326	2,125

*Includes additional funding received resulting from Federal Budgets 2014, 2016 and 2018

ECR = Early Career Researchers

ERR = Established Researchers - Returning

ER-NHG = Established Researchers - Not Holding a Grant

Discovery Grants – Applicant Categories: http://www.nserc-crsng.gc.ca/Professors-Professeurs/Grants-Subs/DGCategories-SDCategories_eng.asp

Table 3 Discovery Grants Competition Results by University (including Affiliated University Research Centers), 2018 Competition

Universities	Early Career Researchers			Established Researchers - Returning			Established Researchers - Not Holding a Grant		
	Success Rate (%)	Total Awarded (\$)	Average Grant (\$)	Success Rate (%)	Total Awarded (\$)	Average Grant (\$)	Success Rate (%)	Total Awarded (\$)	Average Grant (\$)
Acadia University	*	*	*	*	*	*	*	*	*
Algoma University	*	*	*	*	*	*	*	*	*
Athabasca University	*	*	*	*	*	*	*	*	*
Bishop's University	*	*	*	*	*	*	*	*	*
Brandon University	*	*	*	*	*	*	*	*	*
British Columbia Institute of Technology	*	*	*	*	*	*	*	*	*
Brock University	*	*	*	88%	271,000	38,714	57%	138,000	34,500
Cape Breton University	*	*	*	*	*	*	40%	52,000	26,000
Carleton University	57%	209,800	26,225	96%	874,000	36,417	40%	239,000	29,875
Centre de recherche informatique de Montréal	*	*	*	*	*	*	*	*	*
Concordia University	74%	432,000	30,857	81%	924,120	36,965	42%	324,000	32,400
Concordia University of Edmonton	*	*	*	*	*	*	*	*	*
Dalhousie University	68%	443,000	29,533	73%	1,048,050	38,817	42%	322,000	29,273
École de technologie supérieure	69%	258,000	28,667	73%	295,000	36,875	55%	188,000	31,333
École Polytechnique de Montréal	82%	240,000	26,667	85%	922,000	41,909	31%	115,000	28,750
Grant MacEwan University	*	*	*	*	*	*	*	*	*
HEC Montréal	*	*	*	*	*	*	*	*	*
Institut national de la recherche scientifique	*	*	*	80%	635,000	39,688	33%	66,000	33,000
Lakehead University	57%	97,000	24,250	60%	122,000	40,667	10%	16,000	16,000
Laurentian University	*	*	*	88%	258,000	36,857	17%	56,000	28,000
McGill University	76%	784,000	31,360	85%	3,744,250	43,037	43%	602,401	35,435
McMaster University	77%	316,000	31,600	84%	1,815,000	42,209	27%	161,000	26,833
Memorial University of Newfoundland	31%	107,000	26,750	77%	971,000	35,963	43%	280,000	31,111
Mount Allison University	*	*	*	*	*	*	*	*	*
Mount Royal University	*	*	*	*	*	*	*	*	*
Nipissing University	*	*	*	*	*	*	*	*	*
OCAD University	*	*	*	*	*	*	*	*	*
Queen's University	80%	376,000	31,333	94%	2,023,000	44,956	44%	119,000	29,750
Redeemer University College	*	*	*	*	*	*	*	*	*
Royal Military College of Canada	*	*	*	71%	218,000	43,600	25%	129,000	32,250
Royal Roads University	*	*	*	*	*	*	*	*	*
Ryerson University	67%	266,000	26,600	50%	304,000	33,778	5%	23,000	23,000
Saint Mary's University	*	*	*	*	*	*	17%	28,000	28,000
Simon Fraser University	82%	243,450	27,050	90%	1,484,000	41,222	50%	372,000	31,000
St. Francis Xavier University	*	*	*	*	*	*	*	*	*
St. Thomas University	*	*	*	*	*	*	*	*	*
Télé-université	*	*	*	*	*	*	*	*	*
The King's University (Edmonton)	*	*	*	*	*	*	*	*	*
The University of British Columbia	76%	778,000	29,923	89%	5,363,485	52,073	55%	738,000	35,143
The University of Western Ontario	59%	297,000	29,700	89%	3,175,500	43,500	29%	297,140	29,714
The University of Winnipeg	*	*	*	*	*	*	13%	18,000	18,000
Thompson Rivers University	*	*	*	*	*	*	*	*	*
Trent University	60%	105,000	35,000	89%	335,000	41,875	*	*	*
Trinity Western University	*	*	*	*	*	*	*	*	*
TRIUMF	*	*	*	*	*	*	*	*	*
Université de Moncton	*	*	*	71%	193,000	38,600	40%	54,000	27,000
Université de Montréal	81%	678,000	30,818	84%	1,857,000	43,186	30%	282,000	28,200
Université de Sherbrooke	63%	160,000	32,000	71%	974,200	40,592	42%	309,000	30,900
Université du Québec à Chicoutimi	*	*	*	*	*	*	*	*	*
Université du Québec à Montréal	56%	146,000	29,200	79%	782,960	35,589	*	*	*
Université du Québec à Rimouski	*	*	*	50%	88,000	29,333	40%	65,600	32,800
Université du Québec à Trois-Rivières	*	*	*	63%	184,000	36,800	30%	66,000	22,000
Université du Québec en Abitibi-Témiscamingue	*	*	*	*	*	*	71%	143,000	28,600
Université du Québec en Outaouais	*	*	*	80%	146,000	36,500	*	*	*
Université Laval	38%	163,280	32,656	79%	1,602,355	40,059	41%	264,000	29,333
Université Sainte-Anne	*	*	*	*	*	*	*	*	*
University of Alberta	67%	877,580	31,342	89%	4,720,500	48,665	52%	787,510	35,796
University of Calgary	61%	489,000	28,765	81%	2,380,800	41,768	43%	520,970	34,731
University of Guelph	58%	407,000	29,071	83%	1,357,925	41,149	24%	254,600	31,825
University of Lethbridge	*	*	*	80%	315,000	39,375	40%	52,000	26,000
University of Manitoba	64%	218,000	31,143	80%	1,393,000	37,649	50%	477,000	36,692
University of New Brunswick	50%	112,000	28,000	78%	456,000	32,571	35%	200,000	28,571
University of Northern British Columbia	*	*	*	*	*	*	20%	40,000	40,000
University of Ontario Institute of Technology	63%	133,000	26,600	86%	175,000	29,167	35%	157,100	26,183
University of Ottawa	61%	530,000	31,176	85%	2,121,194	41,592	30%	290,000	29,000
University of Prince Edward Island	*	*	*	*	*	*	*	*	*
University of Regina	0%	0	N/A	85%	415,000	37,727	29%	182,000	26,000
University of Saskatchewan	67%	301,000	30,100	83%	1,225,020	40,834	28%	177,000	35,400
University of the Fraser Valley	*	*	*	*	*	*	*	*	*
University of Toronto	72%	1,146,929	30,182	87%	5,183,915	46,702	31%	469,000	31,267
University of Victoria	82%	261,000	29,000	79%	1,247,600	46,207	36%	112,000	28,000
University of Waterloo	79%	625,000	28,409	89%	3,490,346	44,182	56%	250,000	27,778
University of Windsor	67%	225,000	28,125	70%	718,000	44,875	31%	135,000	27,000
Vancouver Island University	*	*	*	*	*	*	*	*	*
Wilfrid Laurier University	*	*	*	50%	116,000	38,667	60%	75,000	25,000
York University	67%	362,000	30,167	87%	1,245,100	36,621	37%	208,000	29,714
Grand Total	64%	12,816,339	29,599	84%	58,180,589	42,592	36%	10,100,321	30,983

* Less than five applications.

Table 4 Statistics by University Size, 2018 Competition

Category of Applicants	Data	University Size		
		Large	Medium	Small
Early Career Researchers	Number of Applications	444	128	105
	Number of grants	310	78	45
	Success Rate	70%	61%	43%
	Total Amount	\$9,334,239	\$2,226,100	\$1,256,000
	Average Grant	\$30,110	\$28,540	\$27,911
Established Researchers - Returning	Number of Applications	1250	256	129
	Number of grants	1,065	202	99
	Success Rate	85%	79%	77%
	Total Amount	\$47,129,140	\$7,463,180	\$3,588,269
	Average Grant	\$44,253	\$36,946	\$36,245
Established Researchers - Not Holding a Grant	Number of Applications	548	175	178
	Number of grants	215	58	53
	Success Rate	39%	33%	30%
	Total Amount	\$6,919,621	\$1,755,000	\$1,425,700
	Average Grant	\$32,184	\$30,259	\$26,900

Table 5 Success Rate by Category of Applicants and University Size, 2014-18

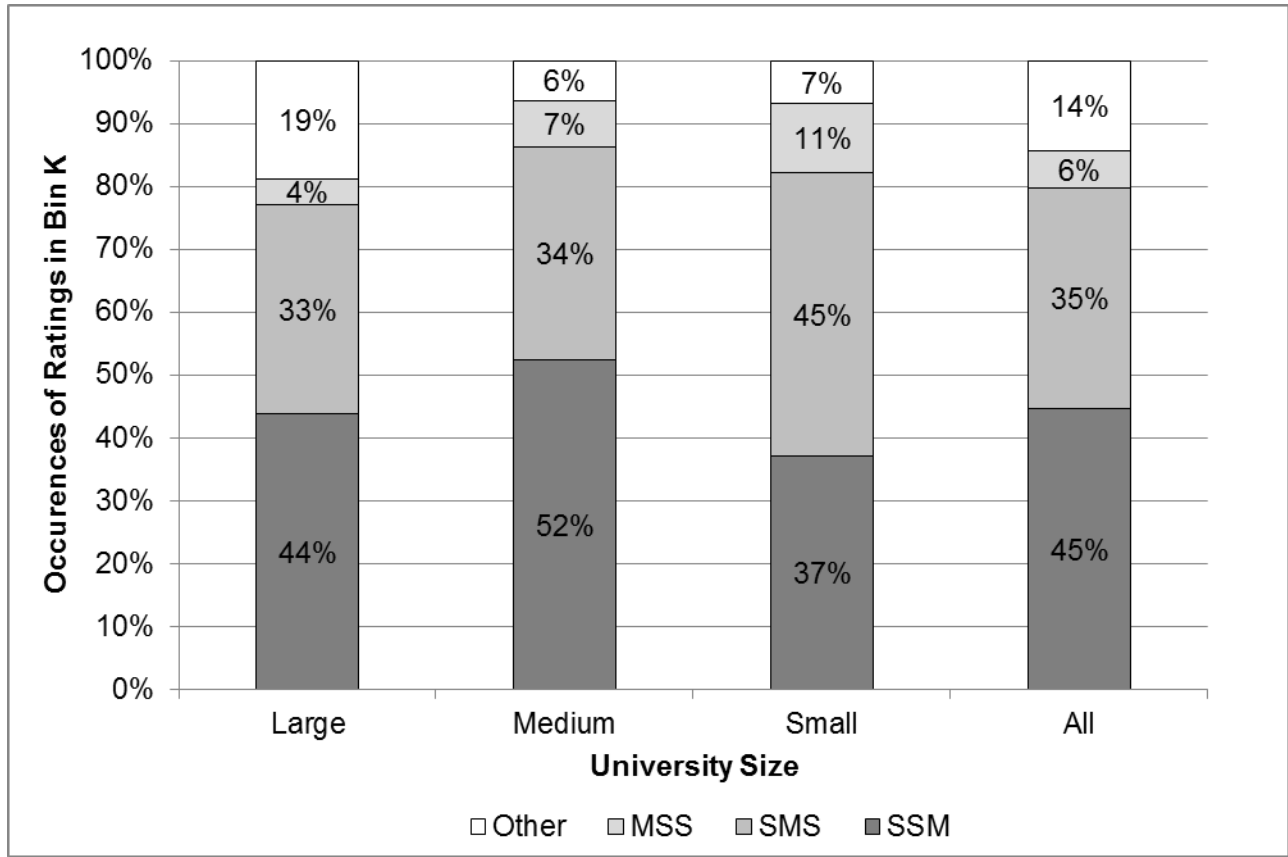
	Large					Medium					Small				
	2014*	2015	2016*	2017	2018*	2014*	2015	2016*	2017	2018*	2014*	2015	2016*	2017	2018*
Early Career Researchers	74%	67%	80%	72%	70%	65%	75%	73%	72%	61%	55%	47%	49%	52%	43%
Established Researchers - Returning	84%	85%	85%	86%	85%	76%	75%	77%	79%	79%	64%	72%	66%	68%	77%
Established Researchers - Not Holding a Grant	43%	45%	43%	45%	39%	37%	32%	33%	33%	33%	24%	25%	20%	27%	30%

*Includes additional funding received resulting from Federal Budget 2014, 2016 and 2018

Table 6 Number of Applications by Quality Bins by University Size, 2018 Competition

Bin	University Size					
	Large		Medium		Small	
	Number	Percentage	Number	Percentage	Number	Percentage
A	10	0.4%	0	0.0%	0	0.0%
B	13	0.6%	1	0.2%	1	0.2%
C	31	1.4%	2	0.4%	0	0.0%
D	60	2.7%	6	1.1%	0	0.0%
E	94	4.2%	11	2.0%	3	0.7%
F	149	6.6%	18	3.2%	5	1.2%
G	236	10.5%	32	5.7%	21	5.1%
H	233	10.4%	51	9.1%	26	6.3%
I	286	12.8%	69	12.3%	41	10.0%
J	365	16.3%	102	18.2%	75	18.2%
K	318	14.2%	109	19.5%	73	17.7%
L	233	10.4%	68	12.2%	62	15.0%
M	136	6.1%	56	10.0%	66	16.0%
N	54	2.4%	21	3.8%	22	5.3%
O	17	0.8%	9	1.6%	10	2.4%
P	7	0.3%	4	0.7%	7	1.7%
Total	2242	100.0%	559	100.0%	412	100.0%

Figure 2 Percentage of Occurrences of Various Combinations of Ratings¹ in Bin K by University Size for the 2018 Competition



¹MSS: Moderate for EoR, Strong for MoP, Strong for HQP
 SMS: Strong for EoR, Moderate for MoP, Strong for HQP
 SSM: Strong for EoR, Strong for MoP, Moderate for HQP

SECTION 2 – STATISTICS BY EVALUATION GROUP

Table 7 Success Rate, Average Grant and Total Amount Awarded by Category of Applicant for Each Evaluation Group, 2018 Competition

1501 - Genes, Cells and Molecules	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	52%	66%	28%
Average Grant	\$37,036	\$45,065	\$36,982
Total Amount Awarded	\$2,037,000	\$6,399,165	\$1,812,110

1502 - Biological Systems and Functions	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	59%	81%	38%
Average Grant	\$28,117	\$43,360	\$32,533
Total Amount Awarded	\$1,658,929	\$8,368,544	\$1,854,371

1503 - Evolution and Ecology	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	57%	83%	34%
Average Grant	\$31,088	\$45,272	\$33,107
Total Amount Awarded	\$839,380	\$4,210,330	\$496,600

1504 - Chemistry	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	69%	94%	32%
Average Grant	\$28,100	\$64,404	\$32,583
Total Amount Awarded	\$562,000	\$6,054,000	\$391,000

1505 - Physics	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	92%	84%	44%
Average Grant	\$31,515	\$42,909	\$29,133
Total Amount Awarded	\$1,040,000	\$4,548,400	\$437,000

1506 - Geosciences	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	66%	92%	53%
Average Grant	\$29,600	\$42,900	\$33,633
Total Amount Awarded	\$740,000	\$3,860,984	\$1,009,000

1507 - Computer Science	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	73%	84%	40%
Average Grant	\$29,057	\$39,179	\$27,640
Total Amount Awarded	\$1,772,450	\$4,936,500	\$1,216,140

1508 - Mathematics and Statistics	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	97%	94%	52%
Average Grant	\$21,286	\$25,515	\$20,773
Total Amount Awarded	\$745,000	\$3,470,000	\$457,000

1509 - Civil, industrial and Systems Engineering	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	66%	88%	22%
Average Grant	\$27,922	\$40,344	\$27,818
Total Amount Awarded	\$1,228,580	\$4,962,305	\$306,000

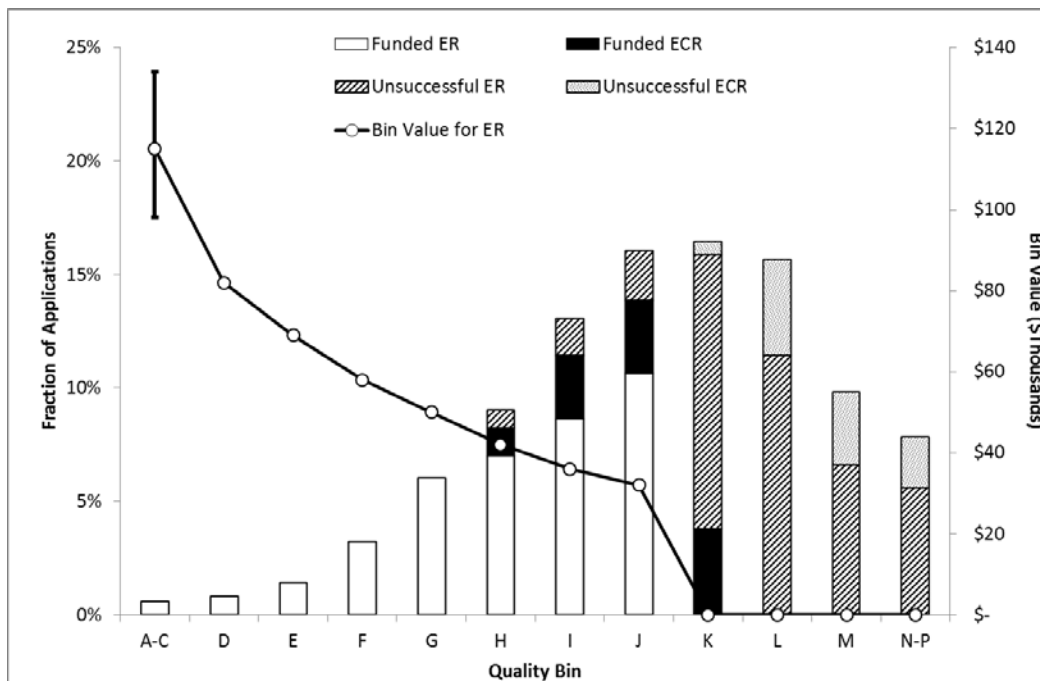
1510 - Electrical and Computer Engineering	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	60%	85%	29%
Average Grant	\$29,667	\$44,014	\$29,421
Total Amount Awarded	\$712,000	\$4,665,431	\$559,000

1511 - Materials and Chemical Engineering	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	53%	81%	40%
Average Grant	\$30,800	\$40,519	\$31,333
Total Amount Awarded	\$616,000	\$3,282,000	\$846,000

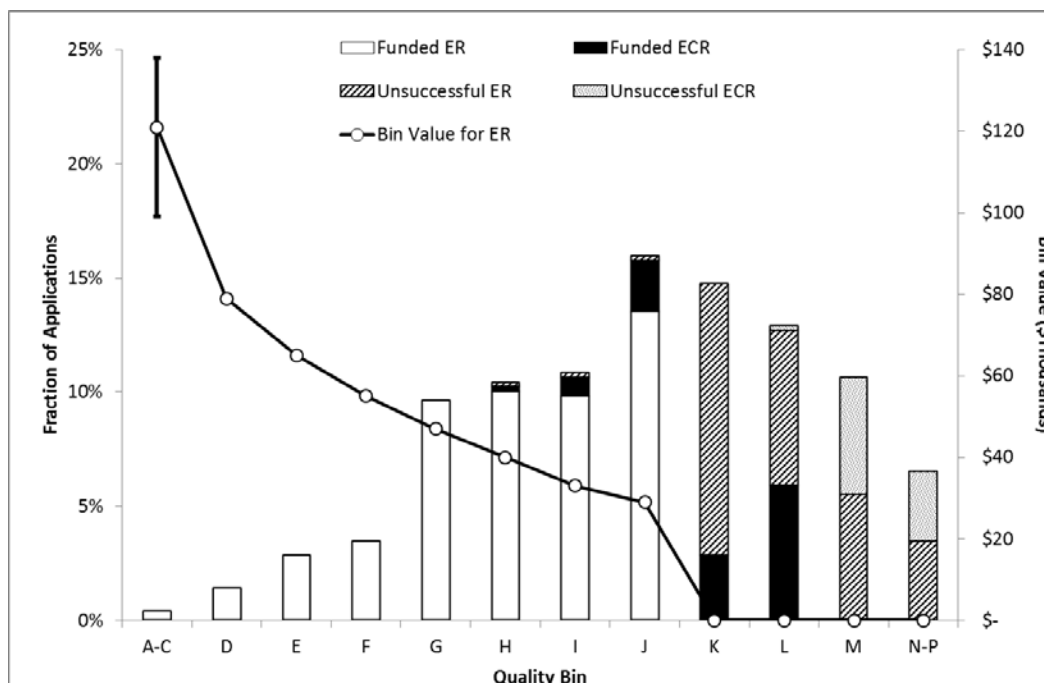
1512 - Mechanical Engineering	Early Career Researchers	Established Researchers	
		Returning	Not Holding a Grant
Success Rate	53%	87%	37%
Average Grant	\$28,833	\$45,039	\$28,644
Total Amount Awarded	\$865,000	\$3,422,930	\$716,100

Figure 3 Distribution of the Percentage of Applications by Quality Bin for Each Evaluation Group, 2018 Competition

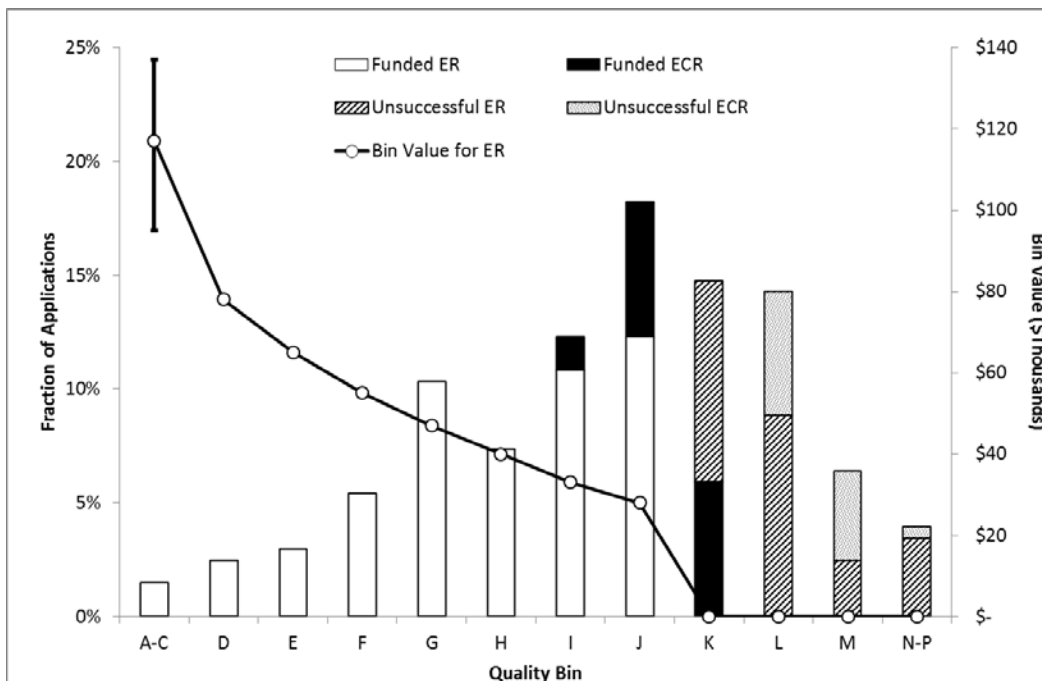
Gene, Cells and Molecules



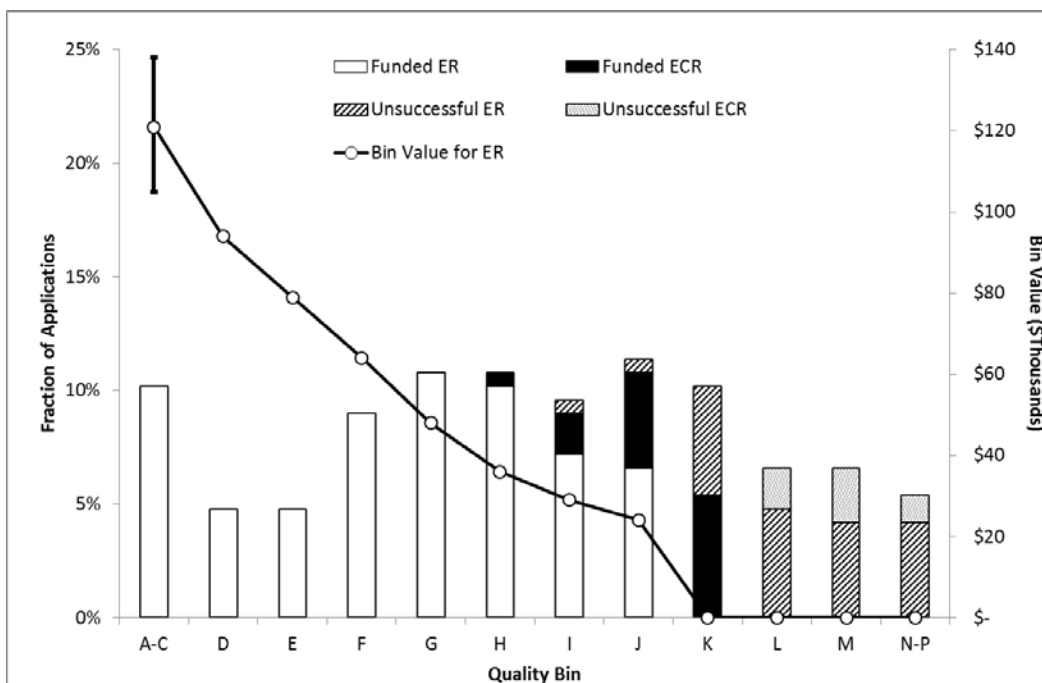
Biological Systems and Functions



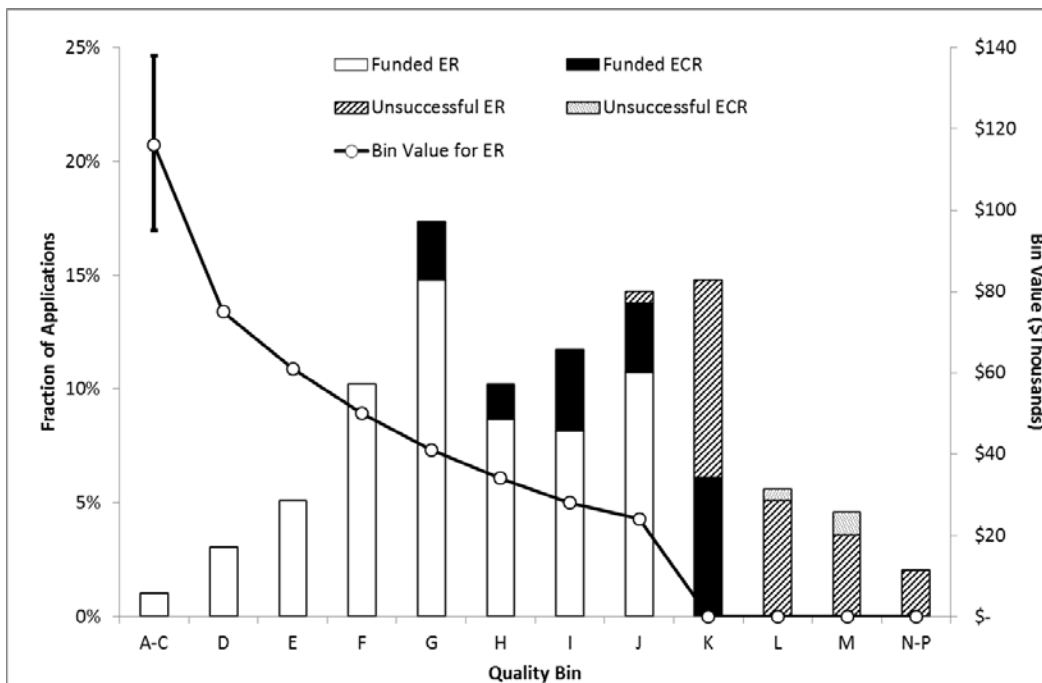
Evolution and Ecology



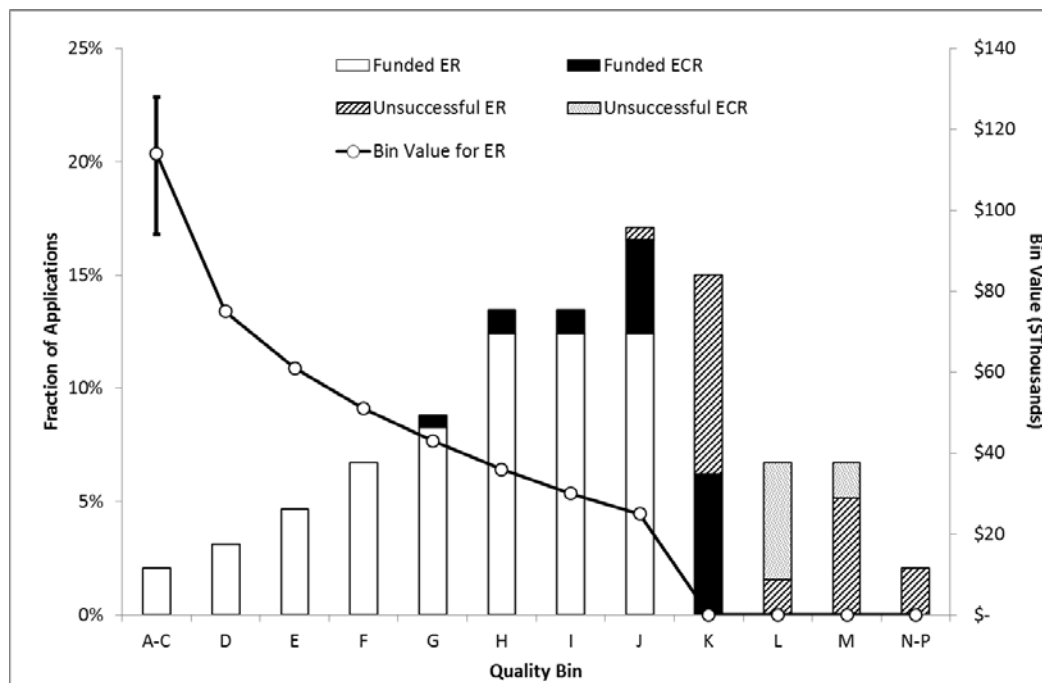
Chemistry



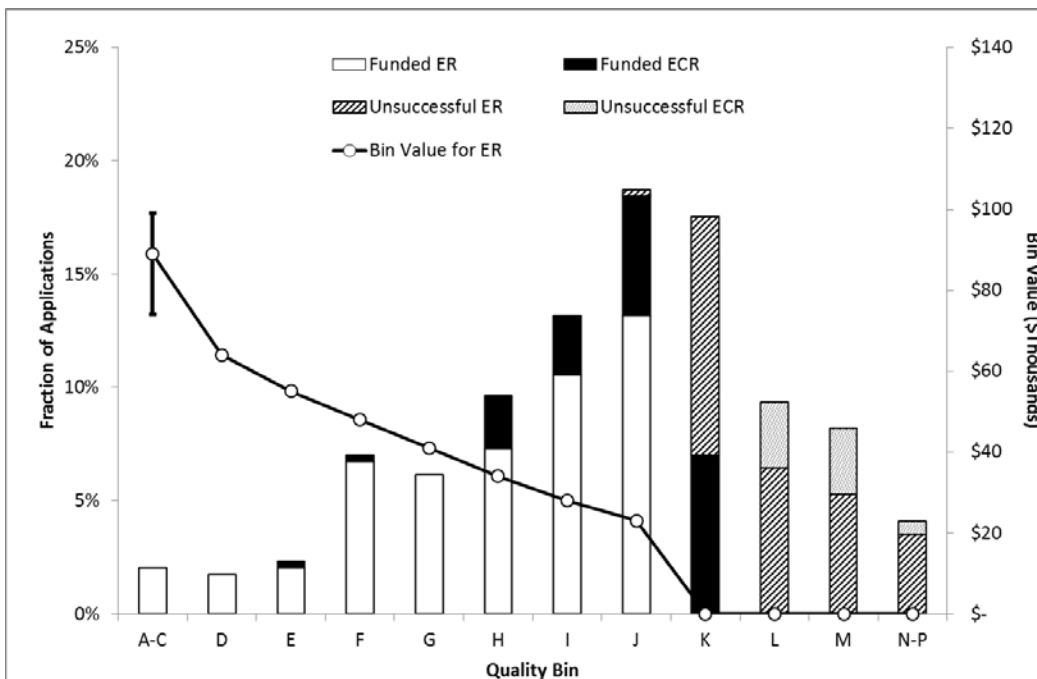
Physics



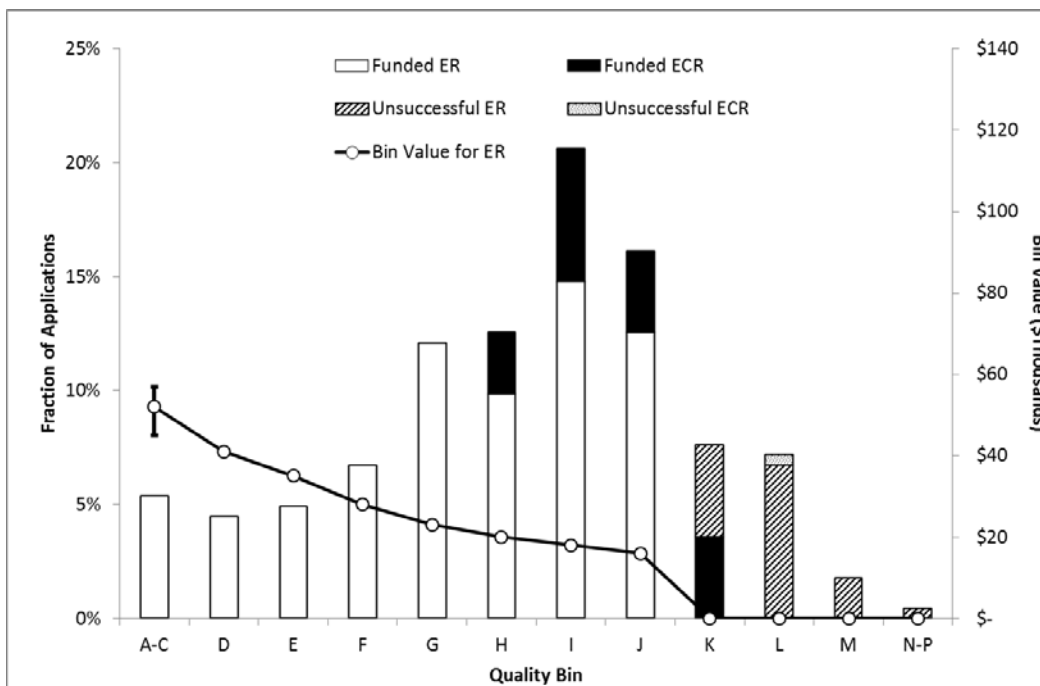
Geoscience



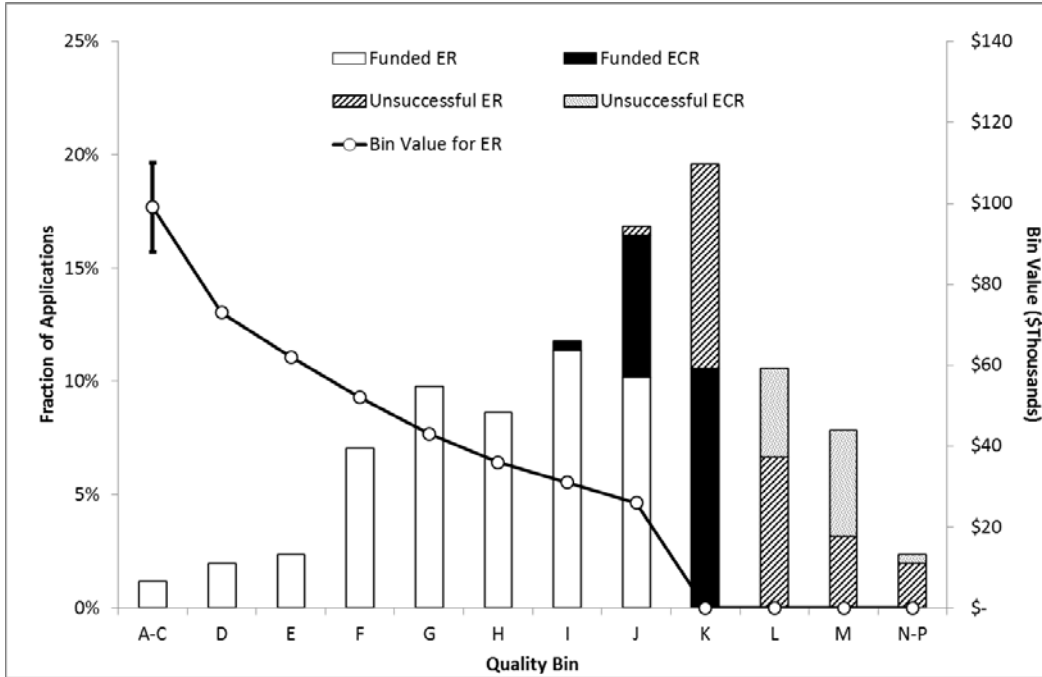
Computer Science



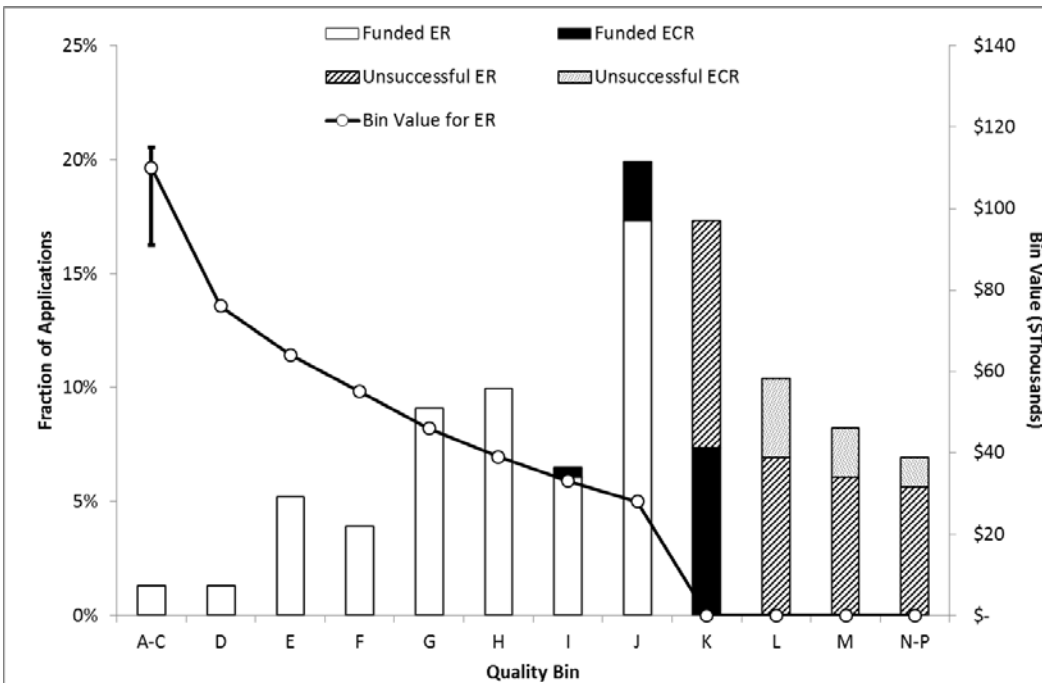
Mathematics and Statistics



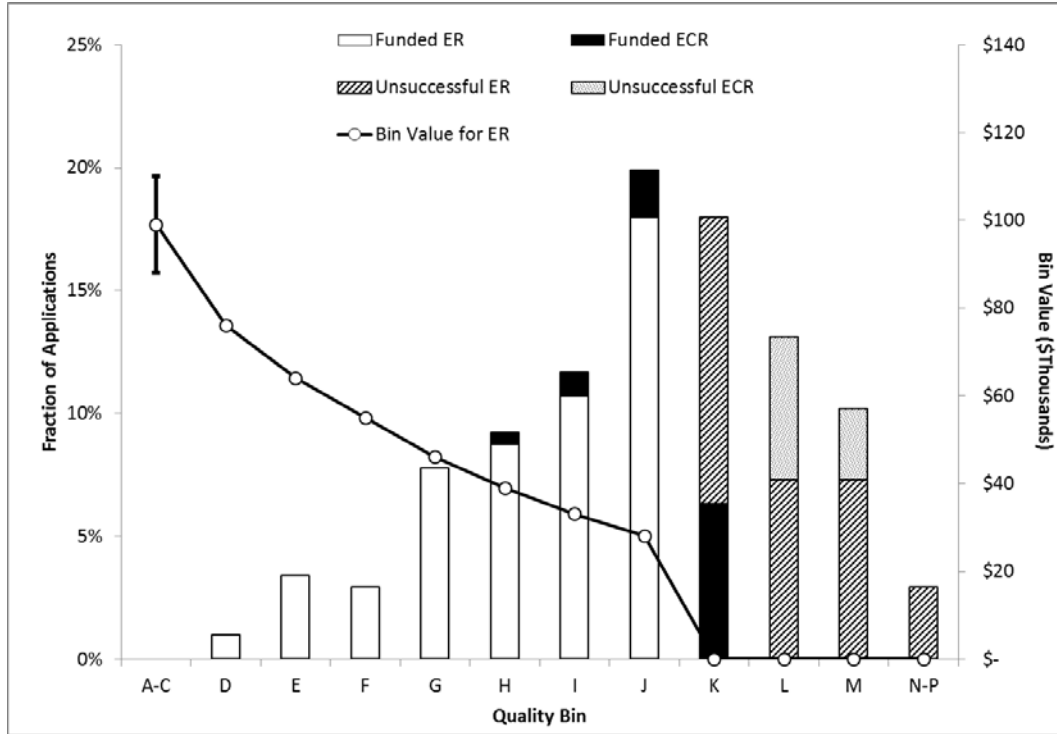
Civil, Industrial and Systems Engineering



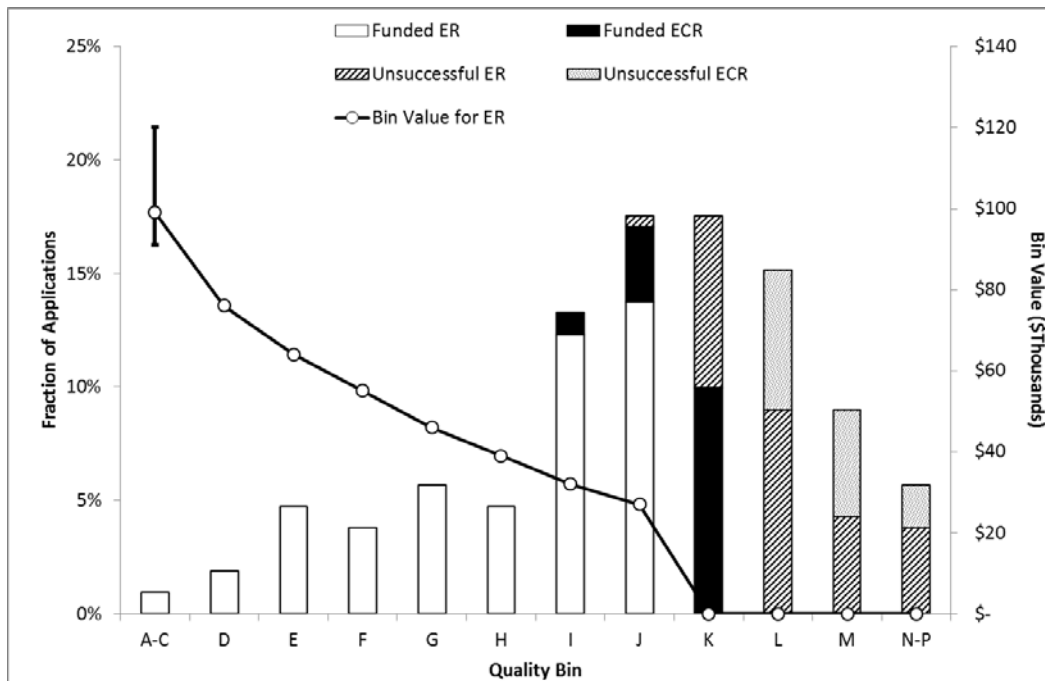
Electrical and Computer Engineering



Materials and Chemical Engineering



Mechanical Engineering



SECTION 3 – SEX-DISAGGREGATED COMPETITION STATISTICS

The data used in this section was taken from the CCV portion of the 2018 applications where applicants are asked to indicate their sex. NSERC is committed to using more inclusive gender language in the future.

Table 8 Number of Applicants by Sex and Career Stage, 2018 Competition

	Sex		
	Female	Male	Not Indicated
Adjunct, Emeriti & Other	25	95	37
Assistant Professor	224	389	198
Associate Professor	186	520	175
Professor	192	916	256
Total	627	1920	666

Table 9 Discovery Grant Success Rate and Average Awarded Amount by Career Stage and Sex, 2018 Competition

	Success Rate			Average Award		
	Female	Male	Not Indicated	Female	Male	Not Indicated
Adjunct, Emeriti & Other	56%	38%	57%	\$34,489	\$34,533	\$33,148
Assistant Professor	55%	62%	65%	\$30,010	\$30,526	\$30,110
Associate Professor	67%	58%	56%	\$36,564	\$36,610	\$31,805
Professor	82%	74%	76%	\$43,918	\$44,376	\$39,863

Table 10 Discovery Grant Success Rate and Average Grant by Applicant Status and Sex, 2018 Competition

	Success Rate			Average Award		
	Female	Male	Not Indicated	Female	Male	Not Indicated
ECR	60%	63%	69%	\$29,286	\$29,877	\$29,391
ER	70%	66%	65%	\$40,029	\$41,489	\$36,975
Total	67%	66%	66%	\$37,324	\$39,575	\$34,933

Table 11 Discovery Grant Success Rate by Sex and Evaluation Group, 2018 Competition

Evaluation Groups		Success Rate			Percentage of Applicants		
		Female	Male	Not Indicated	Female	Male	Not Indicated
1501	Genes, Cells and Molecules	46.4%	49.7%	56.1%	25.1%	66.7%	8.2%
1502	Biological Systems and Functions	60.5%	67.0%	52.7%	32.2%	56.6%	11.3%
1503	Evolution and Ecology	73.9%	65.3%	62.5%	22.7%	49.8%	27.6%
1504	Chemistry	83.9%	75.5%	66.7%	18.6%	63.5%	18.0%
1505	Physics	78.9%	78.9%	77.9%	9.7%	55.6%	34.7%
1506	Geosciences	80.0%	76.9%	67.3%	20.7%	53.9%	25.4%
1507	Computer Science	80.9%	60.9%	76.1%	13.7%	60.5%	25.7%
1508	Mathematics and Statistics	96.8%	84.5%	85.4%	13.9%	49.3%	36.8%
1509	Civil, Industrial and Systems Engineering	72.1%	70.9%	65.6%	16.9%	59.2%	23.9%
1510	Electrical and Computer Engineering	71.4%	66.2%	55.1%	12.1%	66.7%	21.2%
1511	Materials and Chemical Engineering	63.6%	65.5%	47.1%	16.0%	67.5%	16.5%
1512	Mechanical Engineering	77.8%	61.8%	54.7%	12.8%	62.1%	25.1%

SECTION 4 – RESEARCH TOOLS AND INSTRUMENTS

Table 12 Overall Comparative Statistics, 2016-2018 Research Tools and Instruments Competitions

	2016	2017	2018
Requested Amount	\$79,110,834	\$91,616,517	\$120,786,352
Awarded Amount	\$26,133,975	\$30,471,770	\$25,145,333
Funding Rate	33%	33%	21%
Number of Applications	657	748	1,043
Number of Awarded Applications	215	241	208
Success Rate	33%	32%	20%

Table 13 Research Tools and Instruments 2018 Competition Results by Selection Committee

	Requested	Awarded	Funding Rate	Applied	Awarded	Success Rate	Average Requested	Average Awarded
Genes, Cells and Molecules (RTI)	\$13,819,413	\$2,894,771	20.9%	121	23	19.0%	\$114,210	\$125,860
Biological System and Functions (RTI)	\$17,274,641	\$3,656,790	21.2%	161	36	22.4%	\$107,296	\$101,578
Evolution and Ecology (RTI)	\$3,381,624	\$660,259	19.5%	36	7	19.4%	\$93,934	\$94,323
Chemistry (RTI)	\$15,920,859	\$3,402,018	21.4%	129	27	20.9%	\$123,418	\$126,001
Physics (RTI)	\$8,755,615	\$1,829,232	20.9%	72	14	19.4%	\$121,606	\$130,659
Geosciences (RTI)	\$8,174,482	\$1,709,392	20.9%	77	17	22.1%	\$106,162	\$100,552
Computer, Mathematical and Statistical Sciences (RTI)	\$3,659,286	\$797,543	21.8%	35	7	20.0%	\$104,551	\$113,935
Civil, Industrial and Systems Engineering (RTI)	\$8,745,360	\$1,841,294	21.1%	77	15	19.5%	\$113,576	\$122,753
Electrical and Computer Engineering (RTI)	\$12,176,217	\$2,459,434	20.2%	98	18	18.4%	\$124,247	\$136,635
Materials and Chemical Engineering (RT)	\$15,568,267	\$3,155,913	20.3%	129	23	17.8%	\$120,684	\$137,214
Mechanical Engineering (RTI)	\$13,310,588	\$2,738,687	20.6%	108	21	19.4%	\$123,246	\$130,414
Grand Total	\$120,786,352	\$25,145,333	20.8%	1043	208	19.9%	\$115,807	\$120,891

SECTION 5 – SUBATOMIC PHYSICS PROGRAMS

Table 14 Overall Comparative Statistics, Subatomic Physics Programs Competitions, 2014-18

	2014	2015	2016	2017	2018
Total Awarded Amount (\$)	\$6,090,961	\$11,496,299	\$8,333,575	\$9,257,503	\$9,625,187
Success Rate	67.3%	81.0%	79.3%	84.3%	73.7%
Number of Applicants ¹	155	155	158	165	124
Number of Applications	55	58	58	51	38
Number of Applications for Equipment and Resources	20	13	16	13	9
Number of Applications for Individual Grants	16	25	22	17	15
Number of Applications for Project and Team Grants	19	20	20	21	14

¹Data from SAP team

Equipment and Resources = SAPEQ + SAPMR

Individual Grants = SAPIN

Project and Team Grants = SAPPJ + SAPGP