# **2017 APEGS Salary Survey Summary Results**

The Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS) contacted 5,489 Professional Engineers, Professional Geoscientists, Engineers-in-Training, Geoscientists-in-Training and Licensees living in Saskatchewan. A total of 2,072 members completed the survey, representing a 37.7 per cent response rate. Surveys were completed in February and March 2017 and salaries reported were as at December 31, 2016. Insightrix Research Inc. compiled and tabulated all results. The detailed report, which includes analysis by gender, can be found on the APEGS website at http://www.apegs.ca/Portal/Pages/salary-survey

The main goals of the survey are:

- to provide information to all members regarding monetary compensation for different levels of responsibility and advanced degrees;
- to provide information to employers to assist them in establishing appropriate pay levels for recent graduates and ensuring competitive compensation packages for experienced professionals; and
- to give students, career counsellors and other interested persons information on employment, including salaries, in the engineering and geoscience professions in Saskatchewan.

#### **Annual Salary by Final Year of Graduation (B.Sc.)**

1976 & Prior 43 2.1% \$151,152 \$118,364 \$128,501 \$148,873 \$170,782   1977* 1978 10 0.5% \$187,654 \$0 \$125,544 \$157,500 \$215,000   1979*   1980 19 1.0% \$135,352 \$60,000 \$107,000 \$140,000 \$168,000   1981*   1982 23 1.2% \$145,510 \$94,000 \$110,000 \$140,000 \$165,000   1983 15 0.8% \$160,487 \$30,000 \$120,000 \$153,000 \$203,000   1984 14 0.7% \$162,107 \$85,000 \$120,000 \$161,000 \$195,000   1985 18 0.9% \$150,167 \$16,927 \$110,000 \$133,114 \$186,000   1986 27 1.4% \$138,794 \$70,000 \$92,500 \$150,000 \$180,000 \$180,000   1987 24 1.2% \$132,713 \$10,200 \$113,786 \$148,200 \$162,144   1988 22 1.1% \$140,656 \$100,000 \$121,000 \$150,000 \$167,271   1989 22 1.1% \$134,755 \$82,000 \$103,380 \$139,000 \$157,000   1990 24 1.2% \$134,755 \$82,000 \$103,380 \$139,000 \$157,000   1990 24 1.2% \$147,249 \$104,000 \$125,000 \$142,500 \$175,000   1991 18 0.9% \$146,305 \$60,000 \$114,000 \$141,000 \$175,500   1992 17 0.9% \$147,249 \$104,000 \$125,000 \$142,500 \$175,500   1993 20 1.0% \$178,423 \$25,564 \$94,126 \$120,417 \$155,750   1994 33 1.7% \$137,872 \$80,000 \$96,300 \$138,485 \$168,700   1996 31 1.6% \$139,525 \$75,000 \$100,131 \$150,000 \$180,000   1997 35 1.8% \$138,524 \$90,000 \$105,000 \$128,000 \$160,000 \$130,000   1997 35 1.8% \$138,524 \$90,000 \$105,000 \$110,000 \$130,000 \$130,000 \$140,000 \$120,	Percentile 95
1977*         1978       10       0.5%       \$187,654       \$0       \$125,544       \$157,500       \$215,000         1980       19       1.0%       \$135,352       \$60,000       \$107,000       \$140,000       \$168,000         1981*       1982       23       1.2%       \$145,510       \$94,000       \$110,000       \$140,000       \$165,000         1983       15       0.8%       \$160,487       \$30,000       \$120,000       \$153,000       \$203,000         1984       14       0.7%       \$162,107       \$85,000       \$120,000       \$161,000       \$195,000         1985       18       0.9%       \$150,167       \$16,927       \$110,000       \$133,114       \$186,000         1987       24       1.2%       \$132,713       \$10,200       \$113,786       \$148,200       \$162,144         1988       22       1.1%       \$140,666       \$100,000       \$121,000       \$150,000       \$167,271         1989       22       1.1%       \$143,755       \$82,000       \$103,380       \$139,000       \$157,000         1990       24       1.2%       \$147,249       \$104,000       \$125,000       \$142,500       \$176,305         <	
1978       10       0.5%       \$187,654       \$0       \$125,544       \$157,500       \$215,000         1979*       1980       19       1.0%       \$135,352       \$60,000       \$107,000       \$140,000       \$168,000         1981*       1982       23       1.2%       \$145,510       \$94,000       \$110,000       \$140,000       \$165,000         1983       15       0.8%       \$160,487       \$30,000       \$120,000       \$153,000       \$203,000         1984       14       0.7%       \$162,107       \$85,000       \$120,000       \$161,000       \$195,000         1986       27       1.4%       \$138,794       \$70,000       \$92,500       \$150,000       \$180,000         1987       24       1.2%       \$132,713       \$10,200       \$113,786       \$148,200       \$162,144         1988       22       1.1%       \$140,656       \$100,000       \$121,000       \$150,000       \$167,271         1989       22       1.1%       \$134,755       \$82,000       \$103,380       \$139,000       \$157,000         1990       24       1.2%       \$147,249       \$104,000       \$125,000       \$142,500       \$176,305	\$190,636
1979*         1980       19       1.0%       \$135,352       \$60,000       \$107,000       \$140,000       \$168,000         1981*       1982       23       1.2%       \$145,510       \$94,000       \$110,000       \$140,000       \$165,000         1983       15       0.8%       \$160,487       \$30,000       \$120,000       \$153,000       \$203,000         1984       14       0.7%       \$162,107       \$85,000       \$120,000       \$161,000       \$195,000         1985       18       0.9%       \$150,167       \$16,927       \$110,000       \$133,114       \$186,000         1986       27       1.4%       \$138,794       \$70,000       \$92,500       \$150,000       \$180,000         1987       24       1.2%       \$132,713       \$10,200       \$113,786       \$148,200       \$162,144         1988       22       1.1%       \$140,656       \$100,000       \$150,000       \$157,000         1990       24       1.2%       \$147,249       \$104,000       \$125,000       \$142,500       \$176,305         1991       18       0.9%       \$146,305       \$60,000       \$114,000       \$175,500         1992       17	
1980       19       1.0%       \$135,352       \$60,000       \$107,000       \$140,000       \$168,000         1981*       1982       23       1.2%       \$145,510       \$94,000       \$110,000       \$140,000       \$165,000         1983       15       0.8%       \$160,487       \$30,000       \$120,000       \$153,000       \$203,000         1984       14       0.7%       \$162,107       \$85,000       \$120,000       \$161,000       \$195,000         1985       18       0.9%       \$150,167       \$16,927       \$110,000       \$133,114       \$186,000         1986       27       1.4%       \$138,794       \$70,000       \$92,500       \$150,000       \$180,000         1987       24       1.2%       \$132,713       \$10,200       \$113,786       \$148,200       \$162,144         1988       22       1.1%       \$140,656       \$100,000       \$121,000       \$150,000       \$167,271         1989       22       1.1%       \$147,249       \$104,000       \$125,000       \$142,500       \$176,305         1990       24       1.2%       \$147,249       \$104,000       \$125,000       \$142,500       \$176,305         1991	\$295,000
1982       23       1.2%       \$145,510       \$94,000       \$110,000       \$140,000       \$165,000         1983       15       0.8%       \$160,487       \$30,000       \$120,000       \$153,000       \$203,000         1984       14       0.7%       \$162,107       \$85,000       \$120,000       \$161,000       \$195,000         1985       18       0.9%       \$150,167       \$16,927       \$110,000       \$133,114       \$186,000         1986       27       1.4%       \$138,794       \$70,000       \$92,500       \$150,000       \$180,000         1987       24       1.2%       \$132,713       \$10,200       \$113,786       \$148,200       \$162,144         1988       22       1.1%       \$140,656       \$100,000       \$121,000       \$150,000       \$167,271         1989       22       1.1%       \$143,755       \$82,000       \$103,380       \$139,000       \$157,000         1990       24       1.2%       \$147,249       \$104,000       \$125,000       \$142,500       \$176,305         1991       18       0.9%       \$146,305       \$60,000       \$114,000       \$141,000       \$175,500         1992       17       0.9%	
1982         23         1.2%         \$145,510         \$94,000         \$110,000         \$140,000         \$165,000           1983         15         0.8%         \$160,487         \$30,000         \$120,000         \$153,000         \$203,000           1984         14         0.7%         \$162,107         \$85,000         \$120,000         \$161,000         \$195,000           1985         18         0.9%         \$150,167         \$16,927         \$110,000         \$133,114         \$186,000           1986         27         1.4%         \$138,794         \$70,000         \$92,500         \$150,000         \$180,000           1987         24         1.2%         \$132,713         \$10,200         \$113,786         \$148,200         \$162,144           1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000 <td< td=""><td>\$197,000</td></td<>	\$197,000
1983         15         0.8%         \$160,487         \$30,000         \$120,000         \$153,000         \$203,000           1984         14         0.7%         \$162,107         \$85,000         \$120,000         \$161,000         \$195,000           1985         18         0.9%         \$150,167         \$16,927         \$110,000         \$133,114         \$186,000           1986         27         1.4%         \$138,794         \$70,000         \$92,500         \$150,000         \$180,000           1987         24         1.2%         \$132,713         \$10,200         \$113,786         \$148,200         \$162,144           1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$141,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110	
1984         14         0.7%         \$162,107         \$85,000         \$120,000         \$161,000         \$195,000           1985         18         0.9%         \$150,167         \$16,927         \$110,000         \$133,114         \$186,000           1986         27         1.4%         \$138,794         \$70,000         \$92,500         \$150,000         \$180,000           1987         24         1.2%         \$132,713         \$10,200         \$113,786         \$148,200         \$162,144           1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$141,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,	\$213,238
1985         18         0.9%         \$150,167         \$16,927         \$110,000         \$133,114         \$186,000           1986         27         1.4%         \$138,794         \$70,000         \$92,500         \$150,000         \$180,000           1987         24         1.2%         \$132,713         \$10,200         \$113,786         \$148,200         \$162,144           1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,126         \$120,417         \$155,750           1994         33         1.7%         \$137,872         \$80,000         \$96,300         \$138,4	\$265,000
1986         27         1.4%         \$138,794         \$70,000         \$92,500         \$150,000         \$180,000           1987         24         1.2%         \$132,713         \$10,200         \$113,786         \$148,200         \$162,144           1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$141,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,126         \$120,417         \$155,750           1994         33         1.7%         \$137,872         \$80,000         \$96,300         \$138,485         \$168,700           1995         25         1.3%         \$162,432         \$110,000         \$128,	\$281,000
1987         24         1.2%         \$132,713         \$10,200         \$113,786         \$148,200         \$162,144           1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,126         \$120,417         \$155,750           1994         33         1.7%         \$137,872         \$80,000         \$96,300         \$138,485         \$168,700           1995         25         1.3%         \$162,432         \$110,000         \$128,000         \$160,000         \$180,000           1996         31         1.6%         \$139,525         \$75,000         \$100,131         \$150	\$270,000
1988         22         1.1%         \$140,656         \$100,000         \$121,000         \$150,000         \$167,271           1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$141,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,126         \$120,417         \$155,750           1994         33         1.7%         \$137,872         \$80,000         \$96,300         \$138,485         \$168,700           1995         25         1.3%         \$162,432         \$110,000         \$128,000         \$160,000         \$180,000           1996         31         1.6%         \$139,525         \$75,000         \$100,131         \$150,000         \$160,000           1997         35         1.8%         \$138,524         \$90,000         \$105	\$212,000
1989         22         1.1%         \$134,755         \$82,000         \$103,380         \$139,000         \$157,000           1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$141,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,126         \$120,417         \$155,750           1994         33         1.7%         \$137,872         \$80,000         \$96,300         \$138,485         \$168,700           1995         25         1.3%         \$162,432         \$110,000         \$128,000         \$160,000         \$180,000           1996         31         1.6%         \$139,525         \$75,000         \$100,131         \$150,000         \$160,000           1997         35         1.8%         \$138,524         \$90,000         \$105,000         \$128,000         \$160,000	\$194,000
1990         24         1.2%         \$147,249         \$104,000         \$125,000         \$142,500         \$176,305           1991         18         0.9%         \$146,305         \$60,000         \$114,000         \$141,000         \$175,500           1992         17         0.9%         \$187,551         \$0         \$110,000         \$130,000         \$149,000           1993         20         1.0%         \$178,423         \$25,564         \$94,126         \$120,417         \$155,750           1994         33         1.7%         \$137,872         \$80,000         \$96,300         \$138,485         \$168,700           1995         25         1.3%         \$162,432         \$110,000         \$128,000         \$160,000         \$180,000           1996         31         1.6%         \$139,525         \$75,000         \$100,131         \$150,000         \$160,000           1997         35         1.8%         \$138,524         \$90,000         \$105,000         \$128,000         \$160,000	\$182,000
1991       18       0.9%       \$146,305       \$60,000       \$114,000       \$141,000       \$175,500         1992       17       0.9%       \$187,551       \$0       \$110,000       \$130,000       \$149,000         1993       20       1.0%       \$178,423       \$25,564       \$94,126       \$120,417       \$155,750         1994       33       1.7%       \$137,872       \$80,000       \$96,300       \$138,485       \$168,700         1995       25       1.3%       \$162,432       \$110,000       \$128,000       \$160,000       \$180,000         1996       31       1.6%       \$139,525       \$75,000       \$100,131       \$150,000       \$180,000         1997       35       1.8%       \$138,524       \$90,000       \$105,000       \$128,000       \$160,000	\$183,000
1992       17       0.9%       \$187,551       \$0       \$110,000       \$130,000       \$149,000         1993       20       1.0%       \$178,423       \$25,564       \$94,126       \$120,417       \$155,750         1994       33       1.7%       \$137,872       \$80,000       \$96,300       \$138,485       \$168,700         1995       25       1.3%       \$162,432       \$110,000       \$128,000       \$160,000       \$180,000         1996       31       1.6%       \$139,525       \$75,000       \$100,131       \$150,000       \$180,000         1997       35       1.8%       \$138,524       \$90,000       \$105,000       \$128,000       \$160,000	\$192,000
1993       20       1.0%       \$178,423       \$25,564       \$94,126       \$120,417       \$155,750         1994       33       1.7%       \$137,872       \$80,000       \$96,300       \$138,485       \$168,700         1995       25       1.3%       \$162,432       \$110,000       \$128,000       \$160,000       \$180,000         1996       31       1.6%       \$139,525       \$75,000       \$100,131       \$150,000       \$180,000         1997       35       1.8%       \$138,524       \$90,000       \$105,000       \$128,000       \$160,000	\$225,000
1994       33       1.7%       \$137,872       \$80,000       \$96,300       \$138,485       \$168,700         1995       25       1.3%       \$162,432       \$110,000       \$128,000       \$160,000       \$180,000         1996       31       1.6%       \$139,525       \$75,000       \$100,131       \$150,000       \$180,000         1997       35       1.8%       \$138,524       \$90,000       \$105,000       \$128,000       \$160,000	\$200,000
1995       25       1.3%       \$162,432       \$110,000       \$128,000       \$160,000       \$180,000         1996       31       1.6%       \$139,525       \$75,000       \$100,131       \$150,000       \$180,000         1997       35       1.8%       \$138,524       \$90,000       \$105,000       \$128,000       \$160,000	\$200,000
1996       31       1.6%       \$139,525       \$75,000       \$100,131       \$150,000       \$180,000         1997       35       1.8%       \$138,524       \$90,000       \$105,000       \$128,000       \$160,000	\$202,000
1997 35 1.8% \$138,524 \$90,000 \$105,000 \$128,000 \$160,000	\$246,000
	\$198,000
1998 29 1.5% \$107.317 \$40.000 \$90.000 \$110.000 \$130.000	\$236,000
	\$155,000
1999 38 1.9% \$123,339 \$90,000 \$100,000 \$119,500 \$130,000	\$192,000
2000 57 2.9% \$118,603 \$66,000 \$97,600 \$114,000 \$137,000	\$172,212
<b>2</b> 001 59 3.0% \$115,180 \$61,000 \$100,962 \$119,000 \$135,000	\$163,000
2002 57 2.9% \$119,639 \$76,000 \$106,000 \$113,000 \$139,000	\$165,000
2003 47 2.4% \$117,277 \$69,000 \$100,000 \$115,927 \$128,700	\$174,451
2004 59 3.0% \$111,281 \$70,000 \$89,200 \$110,000 \$121,000	\$174,000
<b>2</b> 005 68 3.5% \$108,836 \$64,500 \$91,527 \$110,000 \$126,500	\$150,000
2006 57 2.9% \$105,174 \$52,000 \$89,700 \$106,500 \$118,800	\$157,700
2007 99 5.0% \$100,196 \$46,657 \$87,550 \$99,300 \$117,000	\$135,000
2008 97 4.9% \$95,734 \$67,200 \$84,600 \$93,900 \$105,060	\$145,000
2009 102 5.2% \$94,770 \$64,000 \$85,000 \$94,335 \$105,000	\$126,000
2010 112 5.7% \$88,678 \$65,000 \$78,000 \$87,750 \$101,200	\$120,000
2011 116 5.9% \$86,246 \$62,000 \$73,100 \$80,658 \$95,650	\$129,600
2012 133 6.8% \$84,392 \$55,000 \$71,000 \$78,000 \$87,750	\$111,500
2013 114 5.8% \$77,466 \$58,830 \$67,700 \$74,000 \$85,000	\$106,000
2014 102 5.2% \$70,167 \$50,000 \$60,000 \$69,000 \$81,500	\$91,100
2015 111 5.6% \$67,972 \$50,640 \$60,000 \$64,608 \$75,000	\$91,000
2016 53 2.7% \$64,917 \$43,000 \$58,000 \$63,432 \$72,000	\$85,000

\*Not available due to reporting rules (insufficient data)

# **Annual Salary by Designation**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
P.Eng.	1274	64%	\$119,952	\$73,000	\$91,150	\$109,582	\$136,000	\$192,000
P.Geo.	82	4%	\$126,627	\$78,500	\$100,000	\$124,500	\$145,000	\$185,000
P.Eng. and P.Geo	19	1%	\$143,191	\$30,000	\$110,000	\$160,000	\$168,000	\$210,000
Engineering License	14	1%	\$121,761	\$86,000	\$97,500	\$114,500	\$140,000	\$190,000
Engineer-in-Training	572	29%	\$74,406	\$50,000	\$63,000	\$71,030	\$82,500	\$110,000
Geoscientist-in-Training	g 33	2%	\$76,044	\$32,000	\$62,000	\$72,000	\$88,000	\$150,000
Geo Licensee*								

## **Annual Salary by Discipline**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
Civil	421	21.1%	\$99,529	\$60,000	\$72,000	\$91,500	\$110,000	\$170,000
Mechanical/Industrial	456	22.8%	\$104,092	\$60,000	\$78,000	\$96,108	\$123,089	\$179,262
Electrical/Eng. Physics	315	15.8%	\$110,295	\$60,000	\$77,000	\$100,000	\$127,000	\$164,000
Chem/Ceramic/Metal	91	4.6%	\$116,230	\$70,450	\$85,000	\$105,000	\$146,219	\$192,000
Geo/Mining/Petro	237	11.9%	\$128,305	\$70,000	\$90,900	\$110,000	\$149,000	\$208,000
Agriculture Forestry	46	2.3%	\$82,690	\$50,000	\$64,534	\$75,700	\$93,000	\$145,000
Environmental	125	6.3%	\$93,469	\$54,000	\$72,000	\$90,000	\$110,000	\$154,000
Geo./Hydro.	95	4.8%	\$111,406	\$54,000	\$82,000	\$105,000	\$137,000	\$185,000
Software/Computer	40	2.0%	\$91,667	\$48,250	\$72,250	\$88,710	\$109,250	\$153,738
Biological/Biomedical*								
Industrial*								
Other	165	8.3%	\$111,905	\$57,000	\$75,533	\$100,962	\$140,000	\$200,000

# **Annual Salary by Function**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
Corp. Mgmt.	136	6.8%	\$153,514	\$85,000	\$125,000	\$146,500	\$171,500	\$265,000
Project/Op. Mgmt.	778	39.0%	\$111,460	\$63,000	\$85,800	\$103,852	\$130,000	\$182,000
Project Admin.	64	3.2%	\$87,243	\$52,000	\$63,534	\$81,500	\$105,000	\$130,000
Design	410	20.5%	\$92,572	\$57,000	\$70,000	\$80,978	\$102,000	\$150,000
Research/Planning	125	6.3%	\$94,328	\$40,000	\$70,624	\$89,000	\$120,000	\$150,000
Inspec./Quality/Res.	69	3.5%	\$78,832	\$52,000	\$63,000	\$72,000	\$91,000	\$133,000
Operating/Maint.	176	8.8%	\$111,344	\$56,472	\$81,277	\$95,670	\$120,000	\$165,000
Teaching	40	2.0%	\$155,022	\$80,000	\$96,000	\$137,500	\$166,500	\$202,500
Marketing/Sales	28	1.4%	\$105,422	\$60,000	\$77,500	\$87,750	\$107,500	\$190,000
Reg./Enforcement	65	3.3%	\$92,790	\$65,000	\$76,000	\$91,000	\$103,000	\$130,000
Exploration	39	2.0%	\$104,777	\$32,000	\$73,713	\$95,677	\$135,000	\$185,000
Other	66	3.3%	\$100,045	\$49,000	\$72,000	\$96,840	\$125,000	\$165,000
			*Not available d	lue to reporting rules	(insufficient data)			

## **Annual Salary by Industry**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
Consulting Service	479	24.0%	\$97,691	\$60,000	\$71,060	\$87,570	\$113,200	\$175,000
Oil & Gas	109	5.5%	\$97,400	\$55,000	\$75,200	\$90,000	\$116,286	\$155,000
Except Oil & Gas	369	18.5%	\$125,920	\$73,713	\$94,000	\$113,000	\$145,000	\$198,000
Procure/Const.	171	8.6%	\$102,137	\$62,400	\$72,000	\$93,000	\$120,000	\$185,000
Manufac. Durables	182	9.1%	\$89,602	\$53,857	\$67,200	\$82,350	\$109,000	\$145,000
Manufac. Non-Durables	76	3.8%	\$128,908	\$57,700	\$85,445	\$108,450	\$146,860	\$212,000
Service For Profit	29	1.5%	\$102,446	\$49,000	\$70,000	\$81,500	\$101,112	\$205,000
Service Not For Profit	148	7.4%	\$99,331	\$59,892	\$80,000	\$97,270	\$111,050	\$150,000
Utilities	265	13.3%	\$115,930	\$62,000	\$86,000	\$109,920	\$131,635	\$177,610
<b>Educational Services</b>	76	3.8%	\$130,817	\$40,000	\$84,180	\$125,000	\$162,144	\$203,000
Agriculture/Forestry	18	0.9%	\$79,328	\$42,000	\$63,000	\$74,062	\$93,252	\$130,000
Other	74	3.7%	\$89,508	\$24,000	\$69,000	\$85,000	\$110,000	\$159,360

### **Annual Salary by Degrees**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
Bachelor's	1367	68.5%	\$102,143	\$58,000	\$74,300	\$93,000	\$120,000	\$174,000
	215	10.8%	\$111,268	\$66,000	\$85,000	\$103,347	\$129,361	\$180,434
Master's Degree	287	14.4%	\$117,747	\$55,000	\$80,500	\$106,000	\$130,000	\$186,000
	36	1.8%	\$128,273	\$63,024	\$85,000	\$109,500	\$172,226	\$250,000
Doctorate	91	4.6%	\$130,425	\$55,000	\$95,000	\$137,000	\$162,287	\$193,000

### **Annual Salary by Experience**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
<1 year	79	4.0%	\$68,834	\$42,000	\$56,000	\$65,000	\$78,000	\$110,000
1 year	36	1.8%	\$68,149	\$24,000	\$60,000	\$62,916	\$75,000	\$109,000
1.5 years	79	4.0%	\$66,055	\$48,928	\$59,892	\$63,432	\$71,550	\$89,268
2 years	101	5.1%	\$71,960	\$45,500	\$62,790	\$68,700	\$80,000	\$110,160
3 years	132	6.6%	\$77,939	\$54,100	\$65,000	\$73,470	\$87,680	\$110,900
4 years	136	6.8%	\$81,433	\$60,613	\$70,860	\$78,000	\$86,750	\$117,956
5 years	165	8.3%	\$83,255	\$60,000	\$72,700	\$80,000	\$92,000	\$120,000
6 years	130	6.5%	\$97,788	\$69,000	\$79,600	\$90,000	\$102,500	\$125,000
7-8 years	193	9.7%	\$98,072	\$70,400	\$86,000	\$96,000	\$109,424	\$139,600
9-10 years	174	8.7%	\$107,469	\$75,000	\$93,900	\$103,500	\$121,165	\$150,000
11-12 years	133	6.7%	\$124,734	\$76,400	\$98,600	\$115,000	\$130,000	\$175,000
13-14 years	84	0.2%	\$117,369	\$89,200	\$100,481	\$110,419	\$128,350	\$165,000
15-17 years	145	7.3%	\$125,597	\$85,000	\$106,000	\$123,000	\$140,000	\$170,000
18-20 years	79	4.0%	\$157,796	\$90,014	\$110,000	\$135,000	\$171,000	\$246,000
21-24 years	95	4.8%	\$152,63	83,000	\$114,000	\$140,000	\$175,000	\$200,950
25+ years	235	11.8%	\$154,842	\$88,865	\$125,000	\$150,000	\$179,262	\$250,000

### **Annual Salary by Sector**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
Public Sector	604	100.0%	\$110,358	\$60,000	\$80,000	\$103,000	\$128,000	\$180,000
Private Sector	1369	100.0%	\$105,717	\$59,085	\$75,000	\$95,400	\$123,177	\$180,000

### **Total Salary**

	Count	Column N %	Mean	Percentile 05	Percentile 25	Median	Percentile 75	Percentile 95
Base Salary	1996	100.0%	\$107,130	\$58,830	\$76,291	\$97,000	\$125,000	\$180,000
Salary incl. bonus	1996	100.0%	\$180.135	\$60,000	\$82.278	\$108.300	\$145.000	\$231.500

<sup>\*</sup>Not available due to reporting rules (insufficient data)

#### **Salary Changes - Full-Time Positions**

	median	% change	mean	% change
1987	\$48,000		\$49,269	
1989	\$50,928	6.10%	\$62,887	27.64%
1991	\$54,110	6.25%	\$57,578	-8.44%
1993	\$54,480	0.68%	\$56,703	-1.52%
1995	\$56,400	3.52%	\$59,142	4.30%
1997	\$60,000	6.38%	\$62,266	5.28%
1999	\$62,500	4.17%	\$65,401	5.03%
2001	\$66,000	5.60%	\$68,877	5.31%
2003	\$68,800	4.24%	\$71,210	3.39%
2005	\$71,008	3.21%	\$73,607	3.37%
2007	\$74,000	4.21%	\$77,374	5.12%
2008	\$76,352	3.18%	\$83,025	7.30%
2009	\$80,000	4.78%	\$86,908	4.68%
2010	\$82,950	3.69%	\$91,548	5.34%
2011	\$84,224	1.54%	\$91,154	-0.43%
2012	\$89,472	6.23%	\$96,219	5.56%
2013	\$90,000	0.59%	\$98,030	1.88%
2014	\$94,500	5.00%	\$102,475	4.53%
2015	\$97,000	2.65%	\$105,111	2.57%
2016	\$96,000	-1.03%	\$104,628	-0.46%
2017	\$97,000	1.04%	\$107,130	2.39%

#### **Regression Analysis**

A stepwise linear regression was used to find the best model for predicting salaries for engineers and geoscientists working in different industries. This process was used to:

- Identify key factors which predict salary as well as factors which are not related to salary
- Make the results independent of the different scales used to measure each factor
- Identify Boolean components (such as receipt of professional designation) influencing salary
- Create a linear formula with as much predictive power as possible

An overall formula was also produced which members of APEGS can easily use to estimate their salary. The formula for 2017 explains about 50 per cent (48.2%) of variance in salary. Any model explaining at least 50per cent of the variance in the dependent variable can be considered an effective model. B-values are the raw numerical coefficients of each variable. Since the scales for each variable are different, the beta values are a better measure of relative importance of factors within the model. Refer to the "Classification Rating Guide" which can be found on www.apegs.ca to determine the values for each factor.

Factor	B (Coefficient)	Beta (Relative importance)
(Constant)	57315	
Duties (A)	157	0.210
Experience (C)	308	0.281
Supervision Scope (G)	810	0.188
Receipt of professional designation	7998	0.064

#### Formula for expected salary (SE) without bonus:

SE = Se=157\*A+308\*C+810\*G+57,315

Add 7,998 if you have acquired professional status within your field (P.Eng. or P.Geo.)