Market Analysis for Electronics Engineering Technology

Introduction

There are 16 local two-year colleges that compete with Harper College's Electronics Engineering Technology program. Included in this report is a list of competitor colleges that offer a similar program. In addition, local, state, and national employment projections and wage data for related positions are provided. The list of competitor colleges within a 50 mile radius was obtained through the IPEDS – COOL website (http://www.nces.ed.gov/ipeds/cool) and college-specific program information was obtained from each identified college's website.

Table 1: Electronics Engineering Technology Competitor Colleges (within 50 mile radius)

Major Competitor	Length of Program	Credit hour ($)
Harry S. Truman College (City College of Chicago) – Chicago, IL	**AAS** – Electronics Engineering Technology, 71 credits. **Advanced Certificate** – Electronics Engineering Technology, 31 credits. **Basic Certificate** – Electronics Engineering Technology, 15 credits.	$72/credit; $180.83/credit (out-of-district)
Kennedy-King College (City College of Chicago) – Chicago, IL	**AAS** – Management/Marketing, 61 credits. **Advanced Certificate** – Management/Marketing, 34 credits. **Basic Certificate** – Computer Servicing Electronics Technology, 21 credits.	$72/credit; $180.83/credit (out-of-district)
Olive-Harvey College (City College of Chicago) – Chicago, IL	**AAS** – Computer Electronics Technology, 62 credits. **Advanced Certificate** – Computer Electronics Technology, 32 credits. **Basic Certificate** – Computer Electronics Technology, 16 credits.	$72/credit; $180.83/credit (out-of-district)
Richard J. Daley College (City College of Chicago) – Chicago, IL	**AAS** – Computer Servicing Electronics Technology, 63 credits. **AAS** – Electro-Mechanical-Industrial Electronics Technology, 60 credits. **Advanced Certificate** – Computer Servicing Electronics Technology, 41 credits. **Advanced Certificate** – Electro-Mechanical-Industrial Electronics Technology, 35 credits. **Basic Certificate** – Electro-Mechanical-Industrial Electronics Technology, 22 credits. **Basic Certificate** – Computer Servicing Electronics Technology, 19 credits.	$72/credit; $180.83/credit (out-of-district)

Table 1: Continued

College	Programs	Tuition
College of DuPage – Glen Ellyn, IL	**AAS** – Electronics Engineering Technology, 71 credits. **AAS** – Computer and Internetworking Technologies, 67 credits. **AS** – Engineering Technology, 64 credits. **Certificate** – Computer and Internetworking Technologies, 44 credits. **Certificate** – Controls and Automation, 42 credits. **Certificate** – Electronics Technology, 42 credits. **Certificate** – Electronics Manufacturing, 32 credits. **Certificate** – Microcomputer Servicing Technician, 18 credits.	$96/credit; $223/credit (out-of-district)
College of Lake County – Grayslake, IL	**AAS** – Electronic Information Technology, 65 credits. **AAS** – Electronics Engineering Technology, 63-65 credits. **AAS** – Electronic Systems Technology, 60 credits. **Certificate** – Electronics Technology, 34 credits. **Certificate** – Electrical/Electronic Maintenance, 30-32 credits. **Certificate** – PC Technician, 14 credits.	$80/credit; $205/credit (out-of-district)
Elgin Community College[a] – Elgin, IL	**AAS** – IST/Maintenance Technology, 62-67 credits. **Basic Certificate** – Electrical Systems, 11 credits. **Basic Certificate** – Automated Electronic Systems, 9 credits.	$84/credit; $276.93/credit (out-of-district)
Joliet Junior College – Joliet, IL	**AAS** – Computer Engineering Technology Systems Option, 64 credits. **AAS** – Electrical/Electronic Automated Systems Technology, 64 credits. **AAS** – Electronics Engineering Technology, 64 credits. **Certificate** – Industrial Electrical/Electronics, 42 credits. **Certificate** – Electronics Engineering Technology, 34 credits. **Certificate** –Electrical/Electronics, 16 credits. **Certificate** – Basic Electronics, 8 credits.	$73/credit; $221.27/credit (out-of-district)
Kishwaukee College – Malta, IL	**AAS** – Electronics and Computer Technology, 63 credits. **Certificate** – Industrial Electricity, 30 credits. **Certificate** – Industrial Electronics/A+ Preparation and Controls, 30 credits.	$72/credit; $240.24/credit (out-of-district)

[a] The Electronics Engineering Technology program at these colleges were discontinued in Fall 2006.

Table 1: Continued

McHenry Community College[a] – McHenry, IL	**AAS** – Electronics Engineering Technology, 61-62 credits. **Certificate** – Electronics Engineering Technology, 29 credits.	$77/credit; $276.93/credit (out-of-district)
Moraine Valley Community College – Palos Hills, IL	**AAS** – Electronic/Computer Controls Technician, 63 credits. **Certificate** – Electronic Controls Technician, 42 credits. **Certificate** – Electronics Technician, 18 credits.	$72/credit; $204/credit (out-of-district)
Oakton Community College – Des Plaines, IL	**AAS –** Electronics and Computer Technology, 60 credits. **Certificate** – Electronics Technology, 41 credits. **Certificate** – Electronics Computer Technician, 36 credits.	$77.60/credit; $227.60/credit (out-of-district)
Prairie State College – Chicago Heights, IL	**Certificate** – Computer Electronics Technician, 34-35 credits. **Certificate** – Computer Repair Specialist, 16 credits.	$82/credit; $239/credit (out-of-district)
South Suburban College – South Holland, IL	**AAS** – Electronics Engineering Technology, 62 credits. **Basic Certificate –** Electronics Engineering Technology, 25 credits. **Basic Certificate –** Basic Electricity, 13 credits. **Basic Certificate –** Digital Electronics, 11 credits.	$87/credit; $265/credit (out-of-district)
Triton College[a] – River Grove, IL	**AAS** – Electronics Technology/Computer Maintenance, 66 credits. **AAS** – Electronics Technology/Systems, 66 credits. **Advanced Certificate –** Computer Maintenance, 18 credits. **Certificate –** Electronics Technology, 25 credits.	$61/credit; $179.80/credit (out-of-district)
Waubonsee Community College – Sugar Grove, IL	**AAS** – Electronics Technology, 64 credits. **Certificate –** Advanced Electronics Technology, 30 credits. **Certificate** – Microcomputer Maintenance, 24 credits. **Certificate –** Basic Electronics Technology, 17 credits. **Certificate** – Electrical Maintenance, 10 credits. **Certificate** – Computer Servicing (A+), 8 credits.	$70/credit; $211.81/credit (out-of-district)

[a] The Electronics Engineering Technology program at these colleges were discontinued in Fall 2006.

Table 2: Electronics Engineering Technology Employment Projections

Chicago PMSA*		Employment		Employment Change		Average Yearly Job Openings		
							Due to	Average
SOC CODE	Occupational Title	2002 Number	2012 Number	2002 – 2012		Due to New	Replace-ments	Yearly Total
				Number	% Change			
17-2061	Computer Hardware Engineers	772	806	34	4.38	3	13	16
17-2071	Electrical Engineers	2,786	2,915	129	4.64	13	55	68
17-2072	Non-Computer Electronics Engineers	3,121	3,506	385	12.32	38	61	99
17-3012	Electrical and Electronics Drafters	934	891	-43	-4.62	-4	26	22
17-3023	Electrical and Electronic Engineering Technicians	4,316	4,832	516	11.94	52	90	142

Cook County*		Employment		Employment Change		Average Yearly Job Openings		
							Due to	Average
SOC CODE	Occupational Title	2002 Number	2012 Number	2002 – 2012		Due to New	Replace-ments	Yearly Total
				Number	% Change			
17-2061	Computer Hardware Engineers	539	562	23	4.28	2	9	11
17-2071	Electrical Engineers	1,821	1,928	107	5.85	11	36	47
17-2072	Non-Computer Electronics Engineers	2,055	2,320	265	12.87	26	40	66
17-3012	Electrical and Electronics Drafters	582	562	-20	-3.46	-2	16	14
17-3023	Electrical and Electronic Engineering Technicians	2,825	3,204	379	13.41	38	59	97

*Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

DuPage County*

SOC CODE	Occupational Title	Employment		Employment Change		Average Yearly Job Openings		
							Due to Replace-ments	Average Yearly
		2002	2012	2002 – 2012		Due to		
		Number	Number	Number	% Change	New	ments	Total
17-2061	Computer Hardware Engineers	160	172	12	7.51	1	3	4
17-2071	Electrical Engineers	557	585	27	4.89	3	11	14
17-2072	Non-Computer Electronics Engineers	717	810	94	13.09	9	14	23
17-3012	Electrical and Electronics Drafters	188	177	-11	-5.80	-1	5	4
17-3023	Electrical and Electronic Engineering Technicians	925	1,026	100	10.84	10	19	29

Lake County*

SOC CODE	Occupational Title	Employment		Employment Change		Average Yearly Job Openings		
							Due to Replace-ments	Average Yearly
		2002	2012	2002 – 2012		Due to		
		Number	Number	Number	% Change	New	ments	Total
17-2061	Computer Hardware Engineers	72	75	2	3.10	0	1	1
17-2071	Electrical Engineers	267	278	12	4.47	1	5	6
17-2072	Non-Computer Electronics Engineers	360	411	50	13.93	5	7	12
17-3012	Electrical and Electronics Drafters	98	97	-1	-1.36	0	3	3
17-3023	Electrical and Electronic Engineering Technicians	457	523	66	14.45	7	10	17

*Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

McHenry County*		Employment		Employment Change		Average Yearly Job Openings		
							Due to	Average
SOC	Occupational	2002	2012	2002 – 2012		Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
17-2061	Computer Hardware Engineers	15	15	0	0.00	0	0	0
17-2071	Electrical Engineers	95	94	0	0.00	0	2	2
17-2072	Non-Computer Electronics Engineers	67	74	8	11.27	1	1	2
17-3012	Electrical and Electronics Drafters	37	34	-2	-5.84	0	1	1
17-3023	Electrical and Electronic Engineering Technicians	122	133	11	8.98	1	3	4

Statewide*		Employment		Employment Change		Average Yearly Job Openings		
							Due to	Average
SOC	Occupation	2002	2012	2002 – 2012		Due to	Replace-	Yearly
CODE	Title	Number	Number	Number	% Change	New	ments	Total
17-2061	Computer Hardware Engineers	1,044	1,076	32	3.07	3	17	21
17-2071	Electrical Engineers	4,140	4,238	98	2.37	10	81	91
17-2072	Non-Computer Electronics Engineers	4,442	4,939	497	11.19	50	87	137
17-3012	Electrical and Electronics Drafters	1,441	1,359	-82	-5.69	0	41	41
17-3023	Electrical and Electronic Engineering Technicians	6,252	6,881	629	10.06	63	131	194

*Employment projections are from http://www.ilworkinfo.com

Table 2: Continued

National**		Employment		Employment Change		Average Yearly Job Openings		
							Due to	Average
SOC	Occupational	2004	2014	2004 – 2014		Due to	Replace-	Yearly
CODE	Title	Number	Number	Change	% Change	New	ments	Total***
17-2061	Computer Hardware Engineers	76,511	84,255	7,744	10.1	N/A	N/A	2,000
17-2071	Electrical Engineers	155,904	174,279	18,375	11.8	N/A	N/A	5,000
17-2072	Non-Computer Electronics Engineers	142,864	156,732	13,868	9.7	N/A	N/A	4,000
17-3012	Electrical and Electronics Drafters	37,709	38,169	460	1.2	N/A	N/A	1,000
17-3023	Electrical and Electronic Engineering Technicians	181,636	199,366	17,730	9.8	N/A	N/A	6,000

**Employment projects are from http://www.bls.gov
***Estimate of average yearly job opening due to new jobs and net replacement needs.

Table 3: Electronics Engineering Technology Wage Data

Chicago PMSA*

SOC CODE	Occupational Title	Entry Wage		Median Wage		Experienced Wage	
		Hourly	Annual	Hourly	Annual	Hourly	Annual
17-2061	Computer Hardware Engineers	$22.82	$47,459	$32.89	$68,404	$40.62	$84,478
17-2071	Electrical Engineers	$24.18	$50,297	$34.26	$71,264	$40.52	$84,287
17-2072	Non-Computer Electronics Engineers	$22.76	$47,361	$33.34	$69,337	$39.41	$81,978
17-3012	Electrical and Electronics Drafters	$13.64	$28,380	$19.18	$39,902	$22.69	$47,207
17-3023	Electrical and Electronic Engineering Technicians	$15.53	$32,297	$22.12	$46,005	$26.66	$55,473

Cook County*

SOC CODE	Occupational Title	Entry Wage		Median Wage		Experienced Wage	
		Hourly	Annual	Hourly	Annual	Hourly	Annual
17-2061	Computer Hardware Engineers	$25.48	$53,010	$36.00	$74,885	$41.95	$87,260
17-2071	Electrical Engineers	$25.54	$53,104	$35.87	$74,618	$41.70	$86,734
17-2072	Non-Computer Electronics Engineers	$22.88	$47,575	$30.38	$63,182	$36.57	$76,070
17-3012	Electrical and Electronics Drafters	$11.33	$23,574	$16.81	$34,975	$19.71	$40,982
17-3023	Electrical and Electronic Engineering Technicians	$16.23	$33,745	$23.01	$47,859	$26.23	$54,556

*State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2005 for Chicago and Illinois and 2nd quarter of 2004 for collar counties)

Table 3: Continued

DuPage County*

SOC CODE	Occupational Title	Entry Wage		Median Wage		Experienced Wage	
		Hourly	Annual	Hourly	Hourly	Annual	Hourly
17-2061	Computer Hardware Engineers	$21.80	$45,353	$31.86	$66,266	$39.47	$82,087
17-2071	Electrical Engineers	$24.08	$50,091	$33.96	$70,637	$40.50	$84,244
17-2072	Non-Computer Electronics Engineers	$24.84	$51,658	$31.34	$65,198	$36.11	$75,098
17-3012	Electrical and Electronics Drafters	$15.85	$32,960	$22.91	$47,638	$28.27	$58,790
17-3023	Electrical and Electronic Engineering Technicians	$14.08	$29,282	$22.02	$45,801	$27.48	$57,144

Lake County*

SOC CODE	Occupational Title	Entry Wage		Median Wage		Experienced Wage	
		Hourly	Annual	Hourly	Hourly	Annual	Hourly
17-2061	Computer Hardware Engineers	$27.77	$57,753	$38.94	$80,992	$42.79	$88,988
17-2071	Electrical Engineers	$21.78	$45,292	$34.08	$70,899	$41.04	$85,360
17-2072	Non-Computer Electronics Engineers	$22.12	$46,025	$40.16	$83,520	$48.11	$100,072
17-3012	Electrical and Electronics Drafters	$8.37	$17,402	$17.08	$35,532	$20.03	$41,660
17-3023	Electrical and Electronic Engineering Technicians	$12.87	$26,770	$17.78	$36,989	$22.00	$45,760

*State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2005 for Chicago and Illinois and 2nd quarter of 2004 for collar counties)

Table 3: Continued

McHenry County*

SOC CODE	Occupational Title	Entry Wage		Median Wage		Experienced Wage	
		Hourly	Annual	Hourly	Annual	Hourly	Annual
17-2061	Computer Hardware Engineers	N/A	N/A	N/A	N/A	N/A	N/A
17-2071	Electrical Engineers	$18.06	$37,577	$26.34	$54,792	$32.31	$67,195
17-2072	Non-Computer Electronics Engineers	N/A	N/A	N/A	N/A	N/A	N/A
17-3012	Electrical and Electronics Drafters	N/A	N/A	N/A	N/A	N/A	N/A
17-3023	Electrical and Electronic Engineering Technicians	$14.94	$31,061	$19.91	$41,413	$24.72	$51,417

Statewide*

SOC CODE	Occupational Title	Entry Wage		Median Wage		Experienced Wage	
		Hourly	Annual	Hourly	Hourly	Annual	Hourly
17-2061	Computer Hardware Engineers	$21.49	$44,687	$33.17	$69,001	$39.91	$83,017
17-2071	Electrical Engineers	$24.12	$50,170	$33.90	$70,512	$40.26	$83,737
17-2072	Non-Computer Electronics Engineers	$23.21	$48,262	$33.53	$69,753	$40.21	$83,623
17-3012	Electrical and Electronics Drafters	$14.05	$29,232	$20.35	$42,329	$24.29	$50,532
17-3023	Electrical and Electronic Engineering Technicians	$15.19	$31,605	$21.66	$45,061	$26.27	$54,635

*State wage information from http://www.ilworkinfo.com (as of 1st quarter of 2005 for Chicago and Illinois and 2nd quarter of 2004 for collar counties)

Table 3: Continued

National**

SOC CODE	Occupational Title	Median Hourly	Mean Hourly	Mean Annual	Mean RSE***
17-2061	Computer Hardware Engineers	$40.59	$41.91	$87,170	0.9%
17-2071	Electrical Engineers	$35.34	$36.57	$76,060	0.5%
17-2072	Non-Computer Electronics Engineers	$37.52	$38.46	$79,990	0.6%
17-3012	Electrical and Electronics Drafters	$21.90	$23.27	$48,410	0.8%
17-3023	Electrical and Electronic Engineering Technicians	$23.10	$23.42	$48,710	0.4%

**National wage information from http://www.bls.gov (as of May 2005)
***RSE – Relative Standard Error