

1 Estimated Cost of a Power Electronics Lab Station

Item	Description	Distributor (Manufacturer)	Dist.# (Model#)	Quantity	Cost
Power-pole Board		(HiRel Systems; previously Schott)	75136	1	\$1,250.00
Power Supply	0-40V 5A	NEWARK (BKPrecision)	06J2246 (BK1666)	1	\$250.00
Signal Power Supply	Dual +/-12 V	DIGIKEY (SL POWER)	271-2482-ND (SW301MA0012F01)	1	\$66.00
	Follow this link for recabling instructions for +/-12V power supply				
Differential Probe	100MHz	Newark (Tektronix)	83F2204 (P5200)	1	\$731.00
Function Generator	0.2Hz - 2MHz	DIGIKEY (BKPrecision)	BK4010A-ND (BK4010A)	1	\$250.00
Digital Multimeter		DIGIKEY (BKPrecision)	BK390A-ND (BK390A)	1	\$167.00
Plug in board	20 pin proto board	DIGIKEY (Capital Advanced)	5020CA-ND (US-5020)	2	\$6.62
Crimp Connectors	spade crimp	DIGIKEY	A0896-ND	10	\$5.37
BNC Cable	3 feet	NEWARK (Pomona Electronics)	94B4227 (2249-Y-36)	2	\$48.96
BNC Mini Graber		NEWARK (Pomona Electronics)	35F1061 (3788)	1	\$11.76
Rheostat		NEWARK (Ohmite)	64K5833 (RKS25RE)	1	\$55.46
Rheostat Knob		NEWARK (Multicomp)	10M7570 (MC21052)	1	\$1.49
Banana Wire	Black	NEWARK (Pomona Electronics)	34F851 (B-36-0)	4	\$26.72
Banana Wire	Red	NEWARK (Pomona Electronics)	34F850 (B-36-2)	4	\$26.72

\$2,897.10

2 Estimated Cost of an Electric Drives Lab Station

Item	Description	Distributor (Manufacturer)	Dist.# (Model#)	Quantity	Cost
Motor Sets		Motorsolver Inc		1	\$2,500.00
Electric-Drives Board		(HiRel Systems; previously Schott)	75550	1	\$1,725.00
DSP Board Kit		dSPACE	ACE1104	1	\$5,300.00
Signal Power Supply	Dual +/-12 V	DIGIKEY (SL POWER)	271-2482-ND (SW301MA0012F01)	1	\$66.00
	Follow this link for recabling instructions for +/-12V power supply				
Digital Multimeter		DIGIKEY (BKPrecision)	BK390A-ND (BK390A)	1	\$167.00
BNC Cable	3 feet	NEWARK (Pomona Electronics)	94B4227 (2249-Y-36)	2	\$48.96
BNC Cable	2 feet	NEWARK (MCM Electronics)	35F1073 (2249-C-24)	2	\$33.04
Power Supply	0-40V 5A	NEWARK (BKPrecision)	06J2246 (BK1666)	1	\$250.00
Banana Wire	Black	NEWARK (Pomona Electronics)	34F851 (B-36-0)	4	\$26.72
Banana Wire	Red	NEWARK (Pomona Electronics)	34F850 (B-36-2)	4	\$26.72

\$10,143.44

3 Additional equipment if not available

Item	Description	Distributor (Manufacturer)	Dist.# (Model#)	Quantity	Cost
Oscilloscope	100Mhz,4 Channel	Newark (Tektronix)	93K5775 (TDS2014B)	1	\$1,828.00
Desktop PC		Dell Corporation		1	\$1,000.00

\$2,828.00