

Bid # 15-30 - Natural Science Supplies Equipment
Form of Proposal

Item No.	Item Description	QTY	Unit
	Vendor Names for Reference Purposes Only		
	Fisher Scientific		
1	Acetone, Histological Grade, 20L, Steel Pail, # A16S-20	6	EA
2	Radioactive Source Set, Alpha (Po-210), Beta (Sr-90), Gamma (Co-60), # S440975	6	EA
3	Ethanol, Anhydrous, Histological Grade, 20L, Lined Steel Drum, #A405-20	1	EA
4	Whatman Qualitative Grade Circles Filter Paper, Whatman Grade 1, 5.5 cm, 100/PK, # 09-805B	22	EA
5	L-Glutamic acid, 100g Glass Bottle, # BP378-100	2	EA
6	Hydrochloric acid, Technical Grade, 2.5L Glass, # A142-212	5	EA
7	Magnesium sulfate, heptahydrate, 500g, Poly Bottle, # M63-500	2	EA
8	Nitric acid, Cert. ACS Plus, 2.5L Glass Bottle, # A200-212	2	EA
9	Potassium Iodide, Cert. ACS, 500g Poly Bottle, # P410-500	2	EA
10	Sulfuric acid, Cert ACS Plus 2.5 L Glass Bottle # A300-212	2	EA
11	Melting Point Capillaries Corning Pyrex, 90mm, one end sealed, 2000/cs # 12-141-8	3	CS
12	Insta-Chek 0-13 Wide Range pH Test Paper, 10 pk/cs, # 14-850-1	3	CS
13	Weighing Paper, 3 in x 3 in, 500/pk, 12 pk/case, # 09-898-12A	2	CS

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14	20E Test Strips Mini test of identification of Enterobacteriaceae, 25/pk, #B-20100 API	6	EA
15	Replica Plating Tool for identifying auxotrophic or antibiotic resistant mutant colonies, # 09-718-1	12	EA
16	Replica Plating Replacement Squares, autoclavable, # 09-718-2	3	EA
17	Surgical Design No. 27057 Scalpel Handle for No. 10 and No. 11 Standard Surgeon Stainless 3 inch, # 22-079-657	6	EA
18	Pipet Tips, Aerosol Barrier, Fisherbrand Sure One, Universal fit for research grade pipettors, Volume: 2-20uL, 1 1/4 In, Color: Natural Packaging HRS 10 x 96 Beveled tip, 5 pk/cs # 02-707-432	2	CS
19	Tips, Pipette, Gilson pipetman Tipack, racked pipet tips Model D 300 20-300 uL, autoclavable, 960 tips/pk, # F171400	1	PK
20	Amicon Ultra 2 ML Centrifugal Filters for Protein Purification and Concentration, # UFC200324	1	EA
21	Amicon Ultra 0.5ml, Centrifugal Filter for Protein Purification and Concentration, # UFC500324	1	EA
22	Lipofectamine LTX Reagent with PLUST reagent, Lipofectamine LTX Reagent, # 15338-100	2	EA
23	N-Dimethylformamide, 99.8% Extra Dry over Molecular Sieve, Acros Seal, 100 ml, # 48431000N	1	EA
24	GE Healthcare His Trap HP 5x5ml, # 17-5248-02	2	EA
25	Nitrile Exam Gloves, Size Small, 10 box/case, # 50-903-796	1	CS
26	Nitrile Exam Textured Gloves, Size Medium w/Aloe Vera, 10 boxes/case, # 50-930-796	1	CS
27	Nitrile Exam Textured Gloves, Size Large, 100/box, 10 boxes/case, # 50-930-789	1	CS

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28	Tips, Pipette, Fisherbrand standard, use w/pipetman, Costar, Onepette, 8 & 12 Pette, Eppendorf, Finn pipette, Labpette, 8 & 12 Channel, Nichiryo, Oxford-Benchmate, Rainin EDP2, Socorex Titertek, Digital, Yellow, 1 tp 200 uL, 10/cs, # 02-681-2	1	CS
29	Tips, Pipette, Fisherbrand, Blue, Racked, 10x100 use w/Pipetman, Costar, Eppendorf, Finn pipette, Nichiryo, Oxford Benchmate Rainin EDP2, SMI Airpipettor, Socorex, titertek, Volac, 101-1000, 5 pk/cs, # 02-681-4	1	CS
30	Thermo Scientific Genesys 20 Viaible Spectrophotomer 10mm Cell holder, #14-385-445	3	EA
31	Solid hard maple Meter Sticke, w/plain ends, mm on one side, inches on other, #S32051	12	EA
32	Fisherbrand Plastic Joint Clips, Blue for joint size 19, 10/PK, # 14-955-254	2	PK
33	Enviro-Safe Easy Read General Purpose Liquid-in-glass Thermometers, 20*C to +150*C 12" length, # 13-202-537	12	EA
34	Griffin Beakers, 250ml, Pyrex Brand 4/cs, 12/PK, #02-540K	2	CS
35	Griffin Beakers, 400ml, Pyrex Brand, 4/cs, 12/pk, #02-540L	2	CS
36	Griffin Beakers, 800ml, Pyrex Brand, 4/cs, 6/pk, #02-540N	2	CS
37	Periodic Table, Wall Chart, 48 x 84 inches, Tear Resistant, # S07899	1	EA
38	Ammonium Hydroxide, ACS Reagent, 2.5L Glass Bottle, # AC42330-0025	3	EA
39	Barium Chloride dihydrate Cert. ACS, 500g Poly bottle, # B34-500	1	EA
40	Calcium sulfate dihydrate, ACS Reagent, 500g Plastic bottle, #AC31525-5000	1	EA

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41	Cobalt chloride hexa-hydrate, Cert. ACS 500g Glass Bottle, # C371-500	1	EA	
42	Ethyl acetate, Cert. ACS, 4L, Glass Bottle, # E145-4	1	EA	
43	Lithium chloride, Certified, 100g Poly bottle, # A121-100	2	EA	
44	Petroleum ether, ACS Reagent, ACROS Organics, 500ml, Glass Bottle, # AC42299-5000	1	EA	
45	Sodium acetate tri-hydrate, Cert. ACS, 500g, Poly bottle, # A209-500	1	EA	
46	Zinc sulfate hepta-hydrate, 3kg Poly bottle, Cert. ACS, # Z68-3	1	EA	
47	L-Ascorbic acid, 500g, Glass bottle, # BP351-500	1	EA	
48	Sodium Citrate dihydrate, 500g, poly bottle, # BP327-500	1	EA	
49	Strontium oxide, Tech, 250g, #50-336-997	1	EA	
50	Safety Choice Powder Free Nitrile Disposable Exam Gloves, 9.5" length, 4 mil thickness, Size XL, 10/cs/100/pk, #19-170-010D	1	CS	
51	Safety Choice Powder Free Nitrile Disposable Exam Gloves, 9.5" length, 4 mil thickness, Size Medium # 19-170-010B	1	CS	
	New Brunswick Scientific			
51a	Bioflo 115 100-120v Master Control #, M1369-0120	1	EA	
51b	Bioflo 115 Cooling Valve Manifold, # M1369-2010	1	EA	
51c	Bioflo 115 pH/DO Control Board, # M1369-2020	1	EA	
51d	Bioflo 115 Foam/Level Control, # M1369-2030	1	EA	

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51e	Bioflo 115 3 Fixed Speed Pumps, # M11369-2040	1	EA
51f	Bioflo 115 TMFC w/Auto Mix, # M11369-2141	1	EA
	Takara Clontech		
52	ZsGreen 1 Fluorescent Protein pZs Green 1-C 1 Vector 20ug, # 632447	1	EA
53	DsRed2 Fluorescent Protein pDsRed2 Vector 20 ug, # 632404	1	EA
	Abcam		
54	GFP Protein (Active), 100ug, #AB110168	3	EA
55	Mitochondrial isolation Kit, #AB119740	1	EA
	Sigma Aldrich		
56	Cytochrome C Oxidase assay kit, # CYTOCOX1	2	EA
57	Gel Filtration Markers Kit for Protein Molecular Weights 6, 500-66,000 da, # MWGF70-1KT	2	EA
58	Sigma 1VL-CHO-K1 Cell Line from Hamster, # 85051005	2	EA
59	Sigma Antibiotic Antimycotic sol. (100x) Stabilized w/10,000 units penicillin, # A5955-100ML	1	EA

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60	RPMI-1640 Medium Modified w/20mM HEPES & L-glutamine, w/o Sodium bicarb, liquid, suitable for cell culture, #R7388-6X500ML	2	EA
61	G 418 Disulfate Salt solution # G8168-10ML	1	EA
62	Corning, Costar cell culture plate 24 cell, flat bottom, wrapped, sterile well diameter 15.6 mm Tissue culture treated surface treatment, 100/cs, # 3524	1	CS
63	Barium oxide, Technical Grade, Powder and chunks 500g Glass bottle, # 223603-500G	1	EA
64	Furan, >99%, 500 ml, Glass bottle, # 185922-500ML	1	EA
65	DAPI for nucleic acid staining, #D9542-10MG Sigma	1	EA
	Bio-Rad Laboratories		
66	pGLO Kit, SDS-Page Extension, #166-0013EDU	2	EA
67	Elisa Immuno Explorer Kit, # 166-2400EDU	2	EA
68	Biofuel enzyme Kit, # 166-5035EDU	1	EA
	Edvotek		
69	Mammalian Cell Types, EDVO-kit, #986	8	EA

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	Flinn Scientific		
70	Bulb, Rubber, Black 1ml capacity, # AP8600	150	EA
71	Bulb, Rubber, Red, 2ml capacity, # AP8601	100	EA
72	Test Tubes with Rims, Borosilicate Glass, 18x150mm, 200/case, #GP6025	2	CS
73	Mohr Pipet, 10ml, Glass, Calibrated "to deliver" w/color coded band, # GP7020	15	EA
	Spectrum Chemicals		
74	Potassium sodium tartrate tetrahydrate, Granular, FCC, 500g, Poly Bottle, # P1406-500GM	1	EA
75	Iron, Metal, Reduced Powder, 500g Poly bottle, 100 mesh, # I1040-500GM	1	EA
	Biopac Systems		
76	Human Physiology Set includes: BSL 4 Software (Lessons and PRO) Searchable PDF Manuals and tutorials (BSL PRO, Instructor's Guide, Answer Key, etc, BSL Laboratory Manual MANBSL4 MP36 Data Acquisition Unit (USB) with DC adapter (110v/60hz or 220v/50hz) & cord (US or Euro) 2 x Electrode Lead sets SS2LB Disposable Electrodes (100/pk) EL503 Abrasive Pads (10/pk) ELPAD Handy Dynamometer SS25LA PB Cuff Transducer SS19LA Electronic Stethoscope Transducer SS30L AirFlow Transducer SS11LA Calibration Syringe AFT6A Disposable Bacterial Filters (10 PK) AFT1 Disposable Mouthpieces (10 pk) AFT2, Disposable Noseclips (10/pk) AFT3	6	EA

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77	EDA w/Electrode Pinchleads, #SS571	1	EA		
78	EDA Disposable Electrodes (100), # EL507	1	EA		
79	Isotomic Recording Electrode Gel, # GEL 101	1	EA		
80	Disposable Vinyl Electrodes (100) # EL503	1	EA		
81	Electrode Gel, 227g tube, # GEL 100	1	EA		
	Design Assistance Corporation				
82	Guage Pressure Transmitter, Supplemental, Honeywell, ST-3000, #600-055	1	EA		
83	Differential Pressure Transmitter, Supplemental, Honeywell, ST-3000, # 600-056	1	EA		
84	Industrial PID Controller, 1/4 DIN (Supplimental) # 600-060	1	EA		
85	Digital Multimeter, Process Calibrator #600-205	1	EA		
	NASCO				
86	Bench Mixer-Benchmark Vortex Mixer, speed control 200-3, 200 RPM # SB48273M	4	EA		
87	Magnetic Stirrer with heater analog heat output of 450W, 50/60Hz Speed range, # SB4955M	2	EA		

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	I Miller Precision Optical		
88	Inverted Microscope Leica DMIL Inverted Routine Fluorescence Microscope. LED including TL illumination column with integrated HC Optics with LED illumination for transmitted light (>50,000 h life time) with automatic brightness adjustment to contrast method and auto on/off function including integrated Fluorescence axis, manual shutter and with 3-fold filter slider, 20mm field of view, high stability and large working distances provide optimum microscopy conditions. Includes a fixed stage on 3 point support coaxial double knob for coarse and fine focus on both sides.	1	EA
89	Revolving nosepiece with 25x075 objective thread, built in fluorescence illumination with manual shutter, fluorescence illumination with manual shutter, fluorescence slider with 3 positions, for filter blocks, fluorescence port for exchangeable lamp houses, infinity optics with tube lens 1x interface for exchangeable observation tube and phototubes, condensor holder stepless adjustable including collector, aperture diaphragm and filter holder, IMC interface, power supply for TL LED illumination, including mains cable.	1	EA

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90	<p>Universal holding frame M suitable for fixed stages with object guide of inverted scope DMIL. Using this, it is possible to fix petri dishes with diameters from 24 mm up to 68 mm or to fix slides with a length up to 120 mm. Outer holder dimensions (LxWxH) in mm: 165 x 117 x 5. Includes HI Plan objective 10x/0.25 PH1 with a free working distance of 12mm, for use with or without cover slips and suitable for phase contrast. An objective HI Plan I 20x/0.30 HI with a free working distance of 3.7-2.4 mm; for use with cover slips of 0-2 mm and suitable for phase contrast, not for incident light, except fluorescence. An HI Plan I objective 40x/0.50 PH2 with a working distance of 2.0 mm and suitable for phase contrast. A trinocular tube with vertical photo TV port positioned 88 mm to the side of the tube with switchable light path 100% vis/100% Photo TV with 45 degree viewing angle; 2 eyepieces that are HC Plan 10x/20BR and BR, M. Includes a dust cover.</p>	1	EA	

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91	<p>Fluorescence Components: Scope LED 440D alignment free external LED 4 position light source with attenuator and fast shutter. For all Leica Upright and inverted and stereo microscopes. Includes filter cube system FITC HYQ Exciter 480/40 (460-500) Dichroic 505 Barrier 535/50 (510-560) High energy exciter and bandpass Barrier GFP Green mutant and humanized S65T Bodipy Flo3, Dio 39002 specklered set lifetime warranty. A second filter cube system TRITC HYQ Exciter 545/30 (530-550) Dichroic 565 Barrier 620/60 (590-650) Improved exciter/Barrier for less crossover. TRITC Dil and recommended for DsRed 39005, A condensor S40/0.45 with a free working distance of 40 mm and numerical aperature of 0.45. Designed for brightfield, Phase contract and integrated modulation contrast.</p>	1	EA	

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	I Miller Precision Optical			
92	<p>A Slider for phase contrast with 4 positions, 1 X brightfield and 3x light rings for condenser, An object guide with an adjustment range (xy) of 128x 83 mm accepts all the different inserts from a currently range. Digital Imaging and Analysis Components. LAS Hardware USA Dongle, software modules include a manual operation mode for non-motorized microscopes, image capture sequences can be automated for routine operation; may apply image enhancements, including contrast, brightness and gamma to each channel image; fluorescent and other contract methods such as DIC can be combined in single RGB image. Images at different wavelenghts and contrast methods (channel images) can be acquired and combined into a single RGB colour image (overlay image). The fluorescent filters used to define the wavelenghts can be positioned automatically and shutter controlled with a suitably equipped and compatible microscope. LAS Image Analysis easy to use sequence control that guides you through the whole set up pprocess for acquisition, detetion and measurement</p>	1	EA	

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93	<p>Sophisticated measurements with a wide range of analysis tools, including statistics, histograms and pie charts, all data and images can be exported to user defined reports in Excel. Uses a sequence wizard to interactively establish the settings for the high-speed analysis of over 50 different parameters. Digital color camera with CMOS sensor (1/2)" stand alone operation without any PC possible; high definition live image 1920 x 1080p, 30fps; JPG images with max 5 M pixels, camera control via remote control (PC Control) or via remote control RC2 (HD mode) capture of JPGs or MP4s directly to SD card or to PC using LAS, LAZ-EX or Acquire (Mac) USB 2 connection, compatible with PCs and notebooks camera kit includes MC 170 HD camera, USB 2 cable 1.5 m, HDMI cable 2.5 power supply 5V RC2, remote control, SD card, Leica software for use with PC or MAC. Supported by OS, Win XP Win 7/ Win 8; includes C-mount adapter 0.70 x for 2/3" camera.</p>	1	EA	

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**ANY ITEM WITH A UNIT COST OF \$2,000 or more must be received at
Middlesex County College By April 27, 2015.**

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