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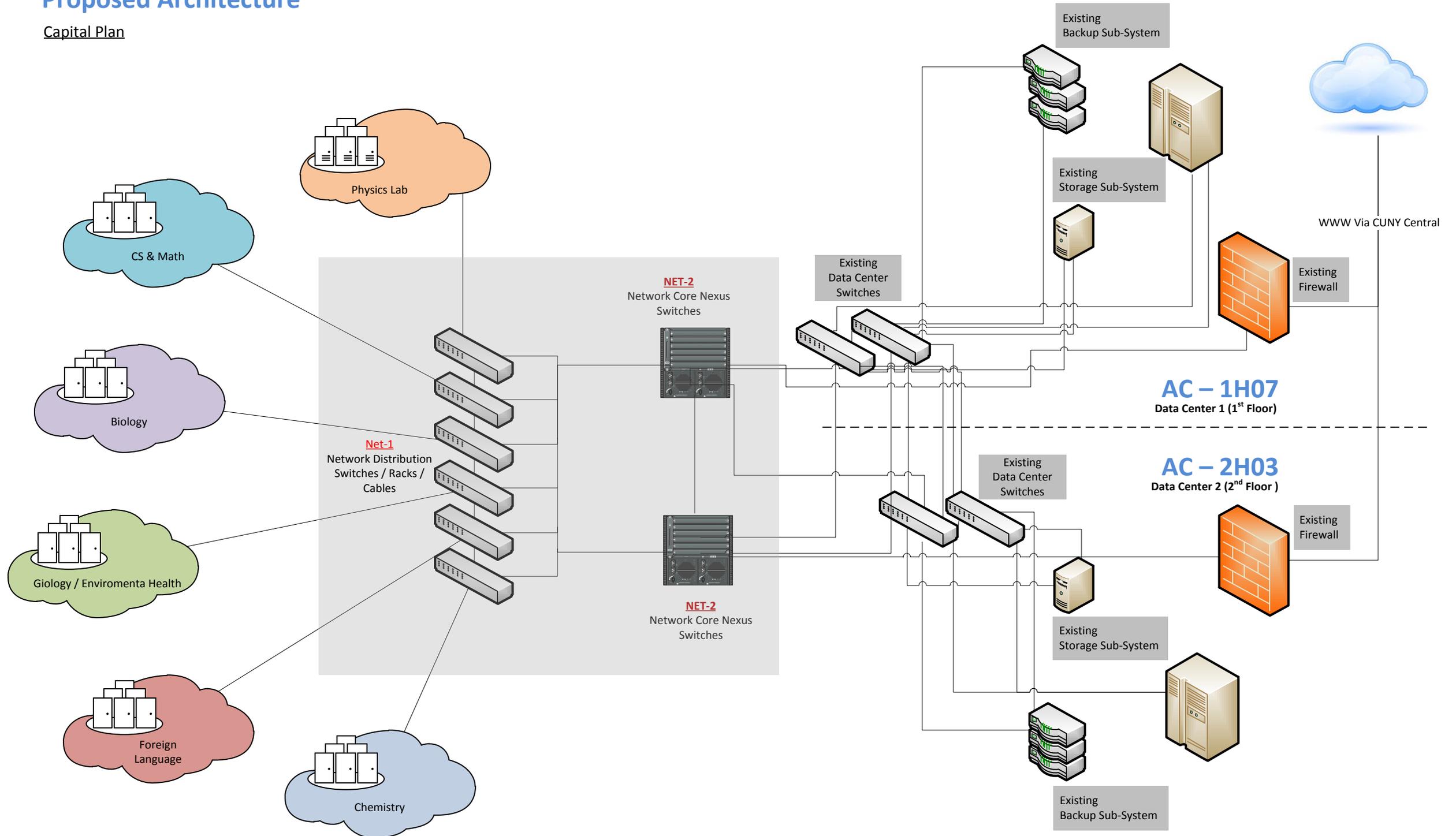
1. **Network and Data Center**
High Level Drawing and Quotes
2. **Biology**
High Level Drawing and Quotes
3. **Chemistry**
High Level Drawing and Quotes
4. **Computer Science / Math / ISM Lab**
High Level Drawing and Quotes
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High Level Drawing and Quotes
6. **Geology / Environmental Health**
High Level Drawing and Quotes
7. **Digital Design and Production Manufacturing Lab**
High Level Drawing and Quotes

Network and Data Center

High Level Drawing and Quotes

Proposed Architecture

Capital Plan



TO: York College
 Mohammad Ahsan
 94 - 20 Guy R. Brewer Blvd
 Jamaica, NY 11451

 kahsan@york.cuny.edu
 (p) 718-262-2754

FROM: Presidio Networked Solutions Group, LLC
 Adelina Mauceri
 110 Parkway Drive South
 Hauppauge, NY 11788

 amauceri@presidio.com
 (p) 631.656.7654
 (f) 631.716.7457

Customer#: YORKC002
Account Manager: Andrew Chris
Inside Sales Rep: Adelina Mauceri
Title: York College APC

#	Part #	Description	List Price	Unit Price	Qty	Ext List Price	Ext Price
1	SRT5KRMXLT	SMARTUPS SRT 5000VA RM 208V	\$4,150.00	\$4,133.45	20	\$83,000.00	\$82,669.00
2	AP9571A	PDU 208V 10 C13 30A RACK BASIC	\$239.99	\$223.86	20	\$4,799.80	\$4,477.20
3	SRT6KRMXLT	SMART UPS SRT 6000VA RM 208V	\$4,775.00	\$4,726.84	10	\$47,750.00	\$47,268.40
4	AP9571A	PDU 208V 10 C13 30A RACK BASIC	\$239.99	\$223.86	10	\$2,399.90	\$2,238.60

Total List Price:						\$137,949.70
Sub Total:						\$136,653.20
Grand Total:						\$136,653.20

Quote valid for 30 days from date shown above. Prices may NOT include all applicable taxes and shipping charges. All prices subject to change without notice. Supply subject to availability.

Pricing

- Quoted prices exclude applicable federal, state or local taxes. Invoicing will include applicable taxes unless a valid tax exempt certificate is provided.
- The price included herein reflects a 3% discount for payment by cash, check or wire transfer. This discount will not apply in the event that customer pays using a credit card or debit card.
- Prices exclude freight, handling or insurance (unless itemized in the quote).
- A customer purchase order infers acceptance of Presidio Networked Solutions Group, LLC's terms & pricing per the applicable quote.
- Warehousing fees are charged at 1% per month of the list (selling) price for goods held in warehousing at customers request or failure by customer to accept delivery.
- Fees for international delivery are determined at the time of sale dependant on customer's service requirements as well as customers import registration status in the destination country.

Freight, Handling, Shipping

- Customer is responsible for all freight charges and will be billed accordingly.
- Title/Risk of loss passes to customer Freight on Board (FOB) origin unless otherwise agreed to in writing by Presidio Networked Solutions Group, LLC.
- Presidio Networked Solutions Group, LLC accepts no responsibility / liability in connection with the shipment.
- International delivery services include (i) Consolidated billing in USD for all international deliveries (ii) Consolidated contracting with one entity, namely Presidio Networked Solutions Group, LLC (iii) Single point of contact (iv) Freight forwarding including exportation permits, application of tariff headings, customs clearance (including import permits, licenses, certificates) (v) Asset Management, Tracking & Reporting.

Payment Policy

- Payment of invoices are due within 30 days from date of invoice unless other terms are issued.
- Presidio Networked Solutions Group, LLC has the right to charge a late payment charge of 2% of the outstanding balance per month for any invoice that remains unpaid beyond its due date.
- Customer is billed upon shipment from the manufacturer.
- Customer shall accept and pay for partial shipment of products.
- Customer understands and agrees to its obligation, that applicable sales tax will apply to the quoted services on a by site location basis.

Return Policy

- Customers return rights are subject to the return policies (& fees including restocking) of the applicable manufacturer
- A Presidio Networked Solutions Group, LLC issued Return Material Authorization (RMA) is required & needs to accompany returned items before any credit is issued to a customer
- Customers have 15 calendar days from original ship date to request a RMA (unless shorter period is required by manufacturer)
- Items returned must be in original shipping cartons, unused, undamaged and unaltered failing which Presidio Networked Solutions Group, LLC is entitled to reject acceptance of items or charge further fee's
- The customer is responsible for shipping fees to the destination highlighted in the RMA
- Opened software cannot be returned

Cancellation Policy

- Customers cancellation of purchase order rights are subject to the cancellation policies (& fees) of the applicable manufacturer

Software terms

- Software is subject to the license terms that accompany it.
- License terms are established between the customer & owner of the software
- Unless Presidio Networked Solutions Group, LLC is the owner or licensor, Presidio Networked Solutions Group, LLC makes no reps and/or warranties relating to its operation, ownership or use.

SmartNet (Third party Maintenance)

- Customers rights are subject to the terms provided by the applicable manufacturer. (per website address)

Limitation of liability

- As per MSA

Please remit payment to:

Presidio Networked Solutions Group, LLC
PO 677638, Dallas, TX, 75267-7638

Wire Instructions:

PNC Bank Beneficiary: Presidio Networked Solutions Group, LLC
Beneficiary Account# 8616159745 ABA: 031000053

Customer hereby authorizes and agrees to make timely payment for products delivered and services rendered, including payments for partial shipments

Customer Signature

Date



Daniel Charles II
Cisco Systems, Inc.

Price Estimate
OGS State Contract number PM20800

Price Estimate for planning and information purposes only and is not a binding offer from Cisco.

Date: 25-Aug-2017

Estimate ID: AD74495181HZ

Deal ID: NA

All prices are shown in USD

Projected Actual Cost calculated based on 42% volumen discount not reflected on Vendor Quote		
Projected Volume Discount (%)	Volume Discount Unit Price	Volume Discount Extended Price
42%	8,120.00	673,960.00
42%	-	-
42%	-	-
42%	58.00	4,814.00
42%	55.10	4,573.30
42%	-	-
42%	-	-
42%	-	-
42%	1,450.00	110,200.00
42%	8,874.00	310,590.00
42%	-	-
42%	-	-
42%	1,102.00	38,570.00
42%	-	-
42%	58.00	2,030.00
42%	55.10	1,928.50
42%	116.00	1,160.00
42%	174.00	1,740.00
42%	113.10	1,357.20
42%	2,320.00	9,280.00
42%	-	-
42%	3,303.10	3,303.10
42%	14.50	14.50
42%	55.10	55.10
42%	-	-
42%	-	-

Part Number	Description	Service Duration (Months)	Lead Time	Unit List Price	Qty	Unit Net Price	Disc (%)	Extended Net Price
WS-C3850-48F-S	Cisco Catalyst 3850 48 Port Full PoE IP Base	---	14	14,000.00	83	9,520.00	32	790,160.00
S3850UK9-36E	CAT3850 Universal k9 image	---	14	0.00	83	0.00	32	0.00
CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15	---	8	0.00	83	0.00	32	0.00
STACK-T1-50CM	50CM Type 1 Stacking Cable	---	14	100.00	83	68.00	32	5,644.00
CAB-SPWR-30CM	Catalyst Stack Power Cable 30 CM	---	14	95.00	83	64.60	32	5,361.80
PWR-C1-BLANK	Config 1 Power Supply Blank	---	14	0.00	83	0.00	32	0.00
PWR-C1-1100WAC	1100W AC Config 1 Power Supply	---	14	0.00	83	0.00	32	0.00
C3850-NM-BLANK	Cisco Catalyst 3850 Network Module Blank	---	14	0.00	83	0.00	32	0.00
C3850-NM-2-10G=	Cisco Catalyst 3850 2 x 10GE Network Module	---	14	2,500.00	76	1,700.00	32	129,200.00
WS-C3850-12X48U-S	Cisco Catalyst 3850 48 Port (12 mGig+36 Gig) UPoE	---	14	15,300.00	35	10,404.00	32	364,140.00
PWR-C1-1100WAC	1100W AC Config 1 Power Supply	---	14	0.00	35	0.00	32	0.00
C3850-NM-BLANK	Cisco Catalyst 3850 Network Module Blank	---	14	0.00	35	0.00	32	0.00
S3850UK9-37E	CAT3850 Universal k9 image	---	14	0.00	35	0.00	32	0.00
PWR-C1-1100WAC/2	1100W AC Config 1 Secondary Power Supply	---	14	1,900.00	35	1,292.00	32	45,220.00
CAB-C15-CBN	Cabinet Jumper Power Cord, 250 VAC 13A, C14-C15	---	8	0.00	70	0.00	32	0.00
STACK-T1-50CM	50CM Type 1 Stacking Cable	---	14	100.00	35	68.00	32	2,380.00
CAB-SPWR-30CM	Catalyst Stack Power Cable 30 CM	---	14	95.00	35	64.60	32	2,261.00
STACK-T1-1M=	1M Type 1 Stacking Cable	---	14	200.00	10	136.00	32	1,360.00
STACK-T1-3M=	3M Type 1 Stacking Cable	---	14	300.00	10	204.00	32	2,040.00
CAB-SPWR-150CM=	Catalyst Stack Power Cable 150 CM Spare	---	14	195.00	12	132.60	32	1,591.20
C3850-NM-4-10G=	Cisco Catalyst 3850 4 x 10GE Network Module	---	14	4,000.00	4	2,720.00	32	10,880.00
R-L-PI2X-U-K9	LMS to Cisco Prime Infrastructure 2.x Upgrade	---	2	0.00	1	0.00	32	0.00
L-L-PI2X-300-U	LMS to Prime Infrastructure 2.x Upgrade 300 Device	---	2	5,695.00	1	3,872.60	32	3,872.60
R-PI22-SW-K9	Prime Infrastructure 2.2 Software	---	2	25.00	1	17.00	32	17.00
L-PI2X-BASE	Prime Infrastructure 2.x Base License	---	2	95.00	1	64.60	32	64.60
L-PILMS42A-300-M	Prime Infrastructure LMS 4.2A - 300 Device Upgrade	---	2	0.00	1	0.00	32	0.00
L-PILMS42-KIT	Prime Infrastructure - LMS License Kit	---	2	0.00	1	0.00	32	0.00

Valid through:

FOB Point: None

Product Total 1,364,192.20

Service Total : 192,000.00

Subscription Total 0.00

Total Price: 1,556,192.20

Product Total 1,163,575.70

Service Total : 192,000.00

Subscription Total

Total Price: 1,355,575.70

***** Notes**

This estimate, calculated by YORK, is based on Cisco's Partner Professional Services Implementation on NYS OGS Contract Number: PM20800. The Projected Actual Cost were calculated based on a 42% volume discount the vendor provides beyond the 32% discount in NYS OGS contract.

Manufacturer Part Number (SKU)	Product Description	List Price	Qty	Total Price:
PS-SNY-ADV	Advanced Daily Install	1,200.00	160	192,000.00

This Price Estimate does not constitute an offer by Cisco to sell products, but is instead an invitation to issue a purchase order to Cisco until the valid date specified in this Price Estimate. Such a purchase order will be subject to Cisco standard procedures, terms and conditions for the acceptance of purchase orders. This order may be subject to sales tax, VAT, duty and freight charges even if not noted on this estimate.



Pricing Proposal
Quotation #: 13677226
Created On: 6/21/2017
Valid Until: 6/30/2017

NY-York College

Stephen Yu

94-20 GUY R. BREWER BLVD.
ATTN: ACCOUNTS PAYABLE
JAMAICA, NY 11451
United States
Phone: (718) 262-2739
Fax:
Email: syu@york.cuny.edu

Inside Account Manager

NY SLED

280 Davidson Ave
Somerset Ave, 08873
Phone: 1-888-744-4084
Fax: 732-868-8982
Email: NYSLED@shi.com

All Prices are in US Dollar (USD)

Product	Qty	Your Price	Total
1 Veeam Availability Suite Enterprise Plus for VMware - Public Sector Veeam Software - Part#: P-VASPLS-VS-P0000-00 Contract Name: Distributor Based Software and Hardware Contract #: PD67647	16	\$2,081.87	\$33,309.92
		Total	\$33,309.92

Additional Comments

Thank you for choosing SHI International Corp! The pricing offered on this quote proposal is valid through the expiration date listed above. To ensure the best level of service, please provide End User Name, Phone Number, Email Address and applicable Contract Number when submitting a Purchase Order. For any additional information including Hardware, Software and Services Contracts, please contact an SHI Inside Sales Representative at (888) 744-4084.

SHI International Corp. is 100% Minority Owned, Woman Owned Business.
TAX ID# 22-3009648; DUNS# 61-1429481; CCR# 61-243957G; CAGE 1HTF0

The Products offered under this proposal are subject to the SHI Return Policy posted at www.shi.com/returnpolicy, unless there is an existing agreement between SHI and the Customer.

SFP-10G-LRM=	10GBASE-LRM SFP Module	---	14	995.00	160	676.60	32.00	108,256.00
SFP-10G-LR=	10GBASE-LR SFP Module	---	14	3,995.00	36	2,716.60	32.00	97,797.60
SFP-10G-SR=	10GBASE-SR SFP Module	---	14	995.00	36	676.60	32.00	24,357.60
GLC-TE=	1000BASE-T SFP transceiver module for Category 5 copper wire	---	21	395.00	24	268.60	32.00	6,446.40
QSFP-40G-SR-BD=	QSFP40G BiDi Short-reach Transceiver	---	14	1,095.00	12	744.60	32.00	8,935.20
QSFP-40G-LR4-S=	QSFP 40GBASE-LR4 Trnscvr Mod, LC, 10km, Enterprise-Class	---	14	10,900.00	8	7,412.00	32.00	59,296.00

42%	577.10	92,336.00
42%	2,317.10	83,415.60
42%	577.10	20,775.60
42%	229.10	5,498.40
42%	635.10	7,621.20
42%	6,322.00	50,576.00

Valid through:		Product Total	524,048.80
FOB Point:	None	*** Service Total :	60,000.00
		Subscription Total	0.00
		Total Price:	584,048.80

Product Total	446,982.80
Service Total :	60,000.00
Subscription Total	
Total Price:	506,982.80

Notes
 *** This estimate, calculated by YORK, is based on Cisco's Partner Professional Services Implementation on NYS OGS Contract Number: PM20800. The Projected Actual Cost were calculated based on a 42% volumen discount the vendor provides beyond the 32% discount in NYS OGS contract.

Manufacturer Part Number (SKU)	Product Description	List Price	Qty	Total Price:
PS-SNY-ADV	Advanced Daily Install	1,200.00	50	60,000.00

This Price Estimate does not constitute an offer by Cisco to sell products, but is instead an invitation to issue a purchase order to Cisco until the valid date specified in this Price Estimate. Such a purchase order will be subject to Cisco standard procedures, terms and conditions for the acceptance of purchase orders. This order may be subject to sales tax, VAT, duty and freight charges even if not noted on this estimate.



Pro-Forma Quotation

To:
York College
 Kamrul Ahsan
 94-20 Guy R. Brewer Blvd., Jamaica, NY 11451

July 5, 2017



From:
Riverbed
 SE Name Trish.Caldiero@riverbed.com 212-520-8938
 Sales Name jmow@riverbed.com 212-520-8913
 Riverbed SteelCentral for Performance Management

Description: SteelCentral Standard NetProfiler Budgetary

ITEM#	QTY	DESCRIPTION	LIST PRICE PER UNIT	EXTENDED PRICE	DISCOUNT	NET PRICE
HARDWARE / SOFTWARE						
Standard NetProfiler Appliance & Flow Capacity License						
SCNP-02270-B010	1	SteelCentral Standard NetProfiler SCNP-02270-B010, 2U	\$ 94,495	\$ 94,495	35%	\$ 61,422
LIC-SCNP-02270-F1	1	SteelCentral Standard NetProfiler License for 200K FPM	\$ 10,500	\$ 10,500	35%	\$ 6,825
NetShark Physical Appliance						
SCAN-02170-B010-C (up to 1 NIC)	1	1U 8TB Base SteelCentral NetShark model 2170; up to 1Gbps write-to-disk, 400K FPM	\$ 21,000	\$ 21,000	35%	\$ 13,650
LIC-SCAN-02170	1	SteelCentral NetShark model 2170 license	\$ 4,000	\$ 4,000	35%	\$ 2,600
NIC-1-001G-4SFP-C	1	Quad 1GbE Fiber SFP Capture NIC	\$ 8,495	\$ 8,495	35%	\$ 5,522
TRC-1-SFP-SX-C	4	SFP - 1GbE SX Fiber for NIC-1-001G-4SFP-C (requires qty 4 for each NIC)	\$ 195	\$ 780	35%	\$ 507
INSTALLATION AND SERVICES						
SVC-PSD-00215	5	NPM SteelCentral Time & Material Consulting Day. For project planning, technical design, implementation, best practice sharing, environmental review or knowledge transfer (excludes T&E)	\$ 2,400	\$ 12,000	5%	\$ 11,400
SVC-PJM-00002	8	NPM Hourly Time & Materials for SteelCentral Project Mangement Consulting Charges (excludes T&E)	\$ 300	\$ 2,400	5%	\$ 2,280

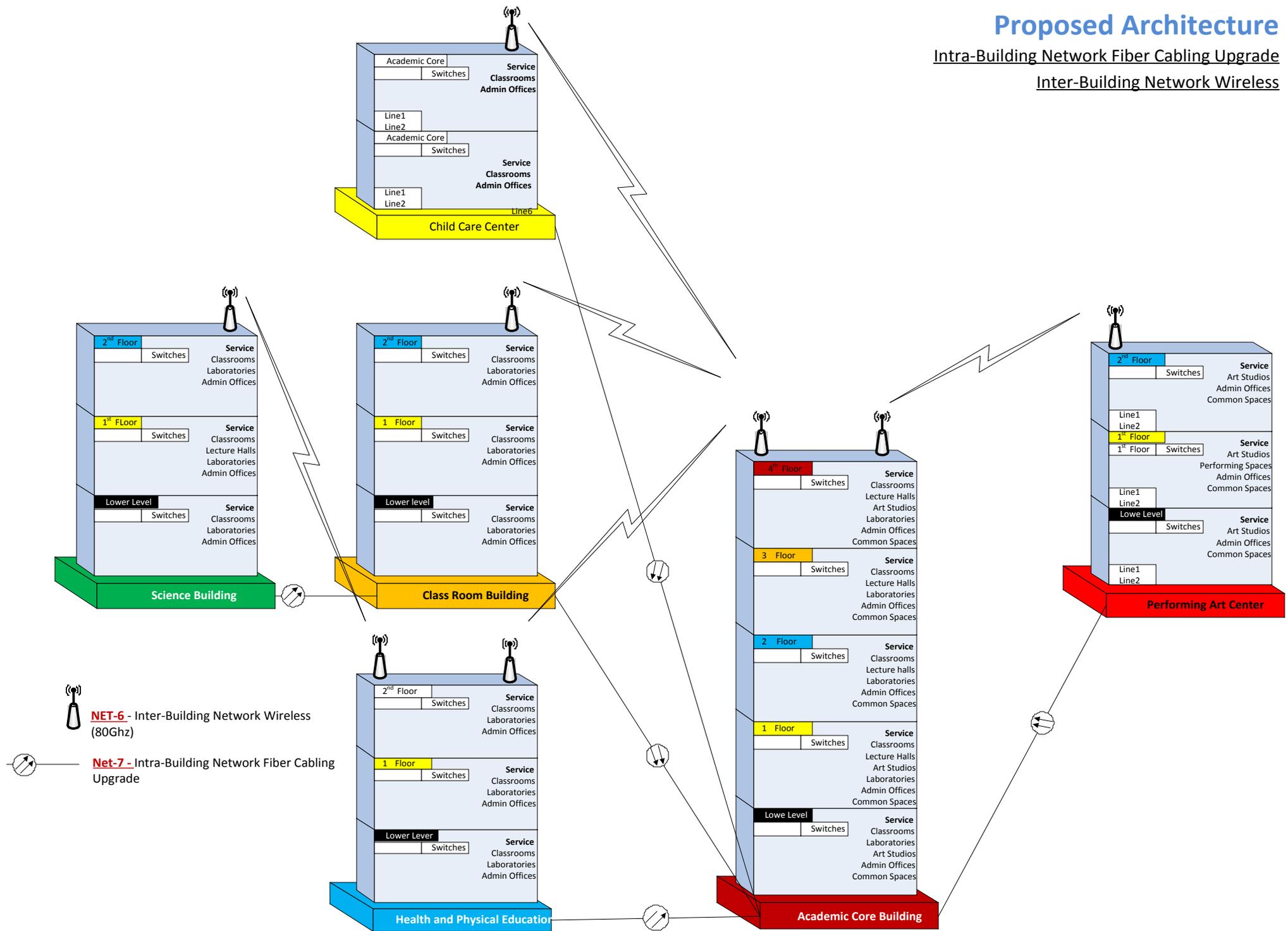
NOTES
 - Pricing contained herein is for budgetary purposes only.
 - Pricing subject to change without notice.
 - Pricing information is confidential to Riverbed and York College

Hardware / Software Subtotal:	\$	90,526
Maintenance Subtotal:	\$	-
Installation and Services Subtotal:	\$	13,680
Total :	\$	104,206

Proposed Architecture

Intra-Building Network Fiber Cabling Upgrade

Inter-Building Network Wireless





ESS, Inc. Headquarters
250 Clearbrook Road
Elmsford, NY 10523
Contact us at :

ESS, New York
141 River Road #6
Nutley, N.J. 07070
(877) 359 5350

Remit To Address
PO Box 3051
West Caldwell, NJ 07007
Website: www.gotoess.com

June 28, 2017

Mr. Peter Tighe
Chief Information Officer
York College
9420 Guy R Brewer Boulevard
Jamaica, NY 11451

Dear Peter,

Thank you for your continued interest in ESS. The following is a revision of our quotation dated June 16, 2016, for 80 Ghz links to connect the 5 buildings on your campus. This revision includes the revised diagram which shows the relocation of the antennas which would have been obstructed by the tree and now has an unobstructed path in the new design.

This revision will give you 5Gb between the Academic Core building and building 3, between buildings 3 and 4 and between building 5 and the Academic Core building. (see the map enclosed). The other links will be 2 Gb links.

Additionally, we relinquished some of the installation responsibilities to the college so as to reduce the cost of the installation. We have detailed what the college will be responsible for in this revision of the proposal.

The following is a System Map, Scope of Work and the Equipment List and Quotation for the system as we discussed. Please review this quote at your first convenience. If you have any questions or concerns, feel free to call me anytime. I am happy to assist you in any way possible.

Respectfully,

Joanna Harrington
Sr. Account Executive
ESS, Inc.



ESS, Inc. Headquarters
250 Clearbrook Road
Elmsford, NY 10523
Contact us at :

ESS, New York
141 River Road #6
Nutley, N.J. 07070
(877) 359 5350

Remit To Address
PO Box 3051
West Caldwell, NJ 07007
Website: www.gotoess.com

Statement of Work

York College SIAE 80GHz Microwave System Installation/Optimization

ESS, Inc will supply the materials and align the dishes to connect the five field studies of the microwave links between the six York College Campus Buildings.

ESS, Inc will register the links with the FCC under the ESS, Inc Nationwide License.

ESS, Inc will need the licensee information: name, address, phone numbers, and other information for the FCC Form 601 preparation.

ESS, Inc will stage the equipment in our Nutley, NJ facility. Staging includes provisioning the RF frequencies, installing the optional software licenses (ACM, Data Rate), incorporating the most recent firmware upgrades, and operational testing of the Ethernet links.

ESS, Inc will install the new SIAE equipment. York College will be responsible for properly ground the equipment to existing ground systems at each site. York will also install all cabling between the ODU and Indoor equipment, including power supplies, UPS, Surge Arresters, grounding of all equipment to a building ground and optimization of the radio link Ethernet connection.

York College will need to provide IP address for all the radio equipment network management in the same subnet. Additionally, this equipment should be connected to emergency power. It is York College's responsibility to provide a dedicated 20 amp receptacle connected to emergency power to support each radio. It is also the responsibility of York College to provide a building ground conductor within 15 feet of the radio for our installers to connect ground wire to. This is necessary to minimize damage due to potential lightning strikes.

ATP testing and documentation will be provided in Adobe Acrobat format.



ESS, Inc. Headquarters
250 Clearbrook Road
Elmsford, NY 10523
Contact us at :

ESS, New York
141 River Road #6
Nutley, N.J. 07070
(877) 359 5350

Remit To Address
PO Box 3051
West Caldwell, NJ 07007
Website: www.gotoess.com

York College Scope of Work

York College expressed an interest in linking the five buildings on campus with licensed point to point 80 Ghz microwave. An initial budgetary quote was provided, however, as a result of a proposal review meeting, it is the desire of York college to assume some of the installation responsibility in order to reduce costs. The following information will equip the college with the requirements for assuming those portions of the installation that ESS will relinquish to York. Please review the following information and call me with any questions you may have. We have provided a detailed Scope of Work because Microwave installation requires percission. My engineer is also available to answer any questions.

Wall Mount Bracket Specifications

The wall mount bracket must be secured with through the wall with galvanized steel hardware a minimum of 5/8" size rod.

The 4 1/2" pipe must be vertical and perpendicular to the ground. That is, checked for plumb at 90 degree intervals around the pipe. The mounting pipe must be plumb for antenna alignment.

The mounting brackets must be secured to the wall between 6" and 12" from the ends.

The wall must be a solid wall or extra wall mount brackets will be needed or a load spreader mounted on the inside of the wall. This would require additional materials above and beyond a normal installation.

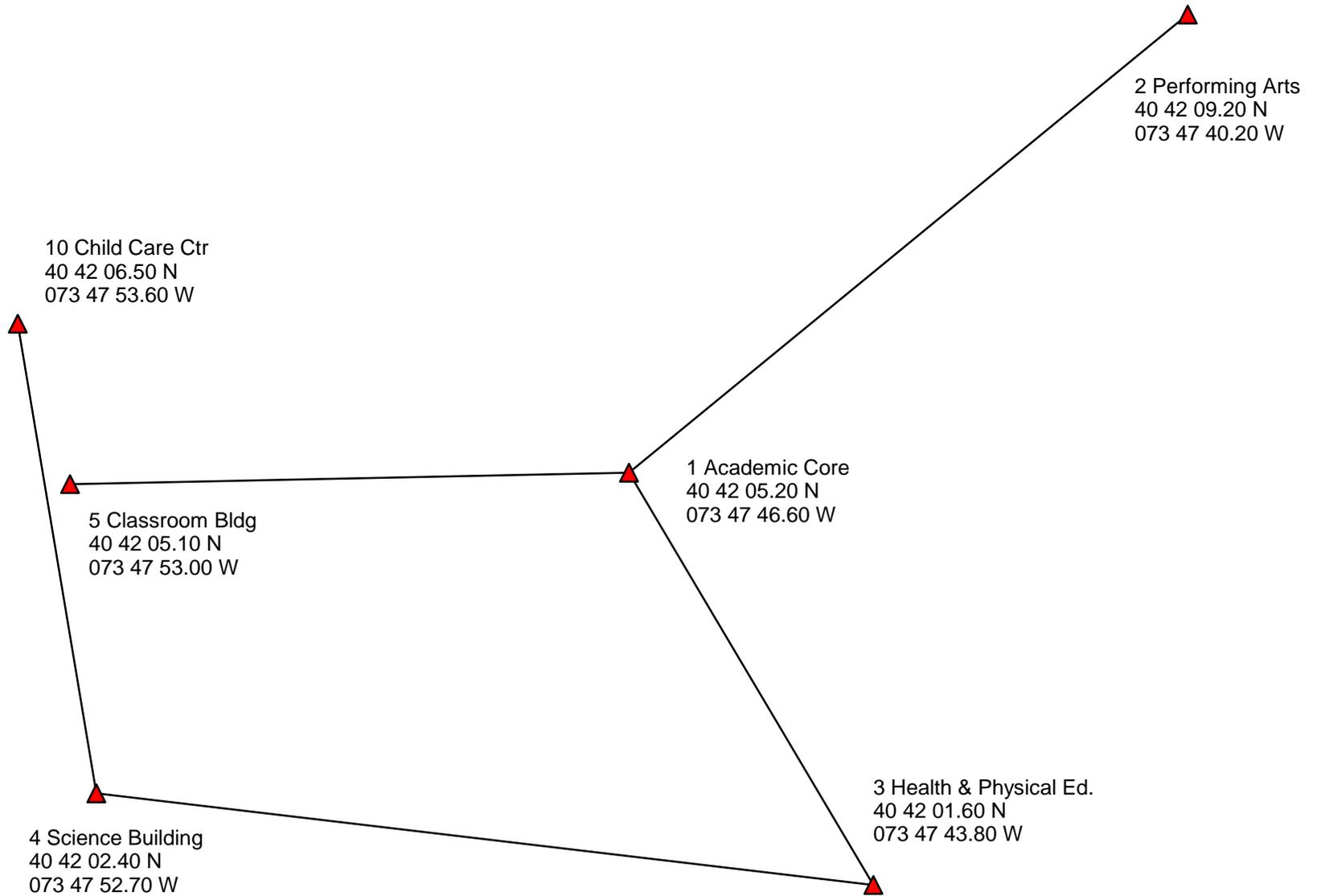
Cable Run Specifications

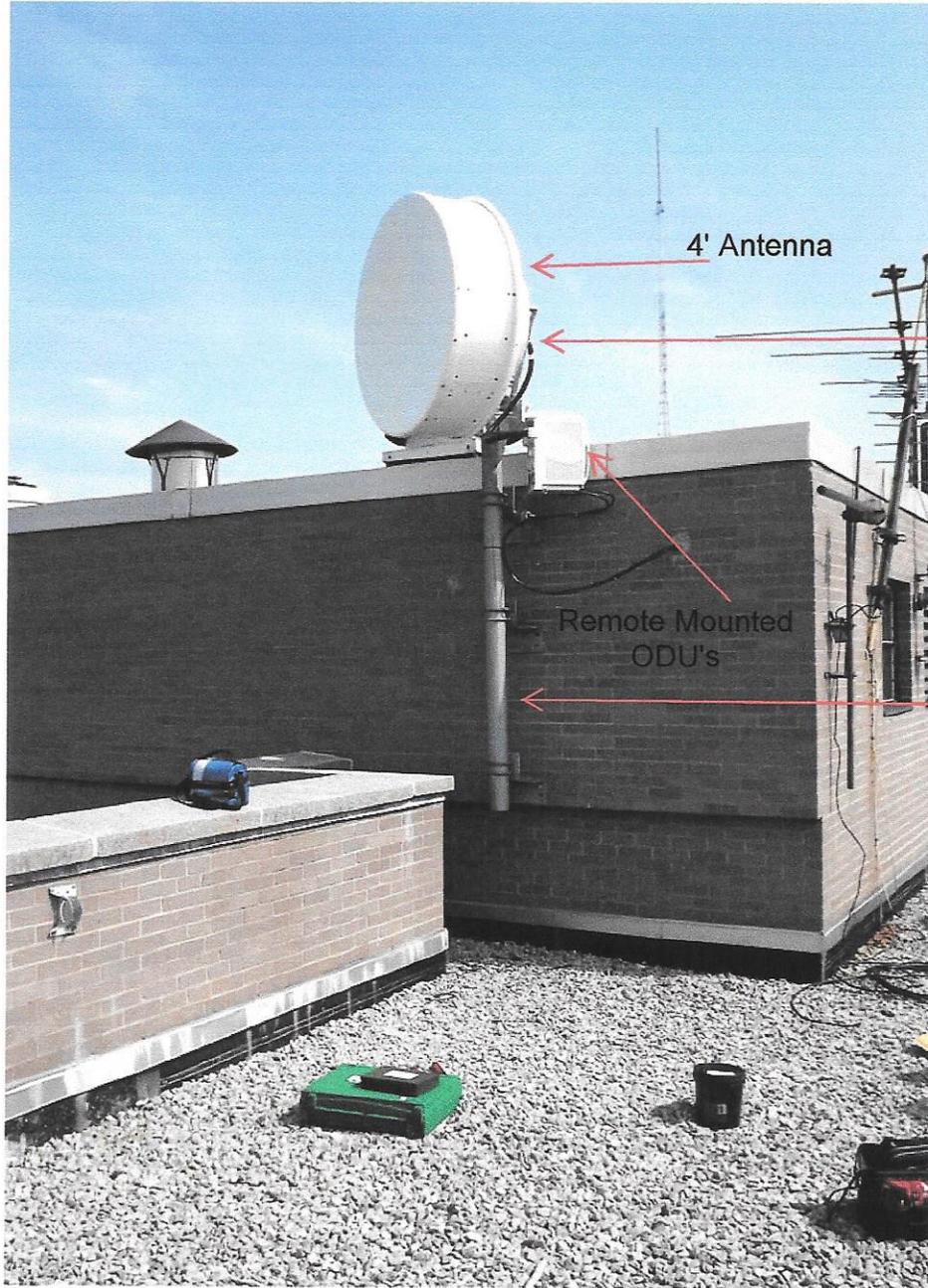
All cable runs must exit the exterior wall through the appropriate conduit with fire stop applied according to local fire codes.

All cable must be secured at regular intervals (3' recommended) and avoid abrasion or contact with sharp or rough surfaces. All cables going through fire walls must use the appropriate fittings and fire stop at the wall entry/exit.

All cable must be run between the outdoor mounted radio/antenna unit and the indoor equipment room.

The following page will give you a visual of your installation requirements.





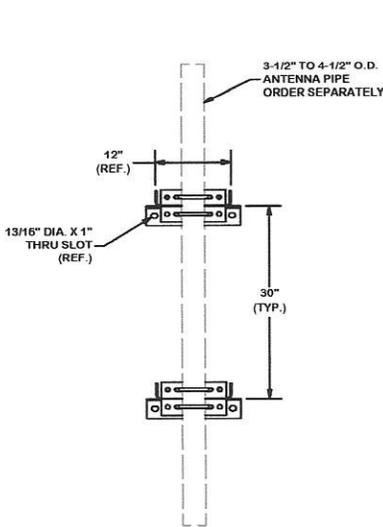
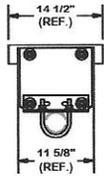
4' Antenna

80GHz 1' Antenna
has ODU Mounted
Directly to Antenna

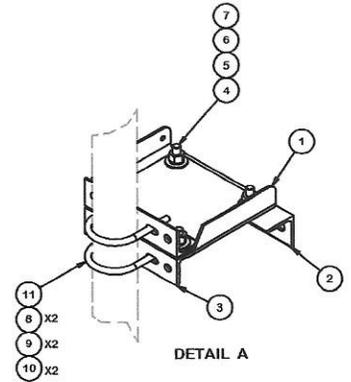
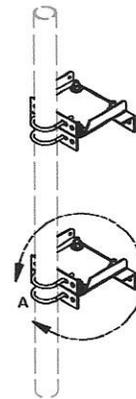
Remote Mounted
ODU's

Wall Mount
For much larger
antennas

Typical Wall Mounted Antenna and ODU



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-SLD-BP	SLIDER BRACKET BENT PLATE		8.13	16.26
2	2	X-SLD3	SLIDER BRACKET WALL ANGLE	14 1/2 in	6.10	12.20
3	4	X-SLD-A	SLIDER BRACKET ANGLE	10 in	3.28	13.12
4	8	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	2.16
5	8	G58FW	5/8" HDG USS FLATWASHER		0.07	0.56
6	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
7	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
8	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
9	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
10	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
11	4	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" GALV U-BOLT		0.77	3.09
11	4	X-UB1458	1/2" X 4-5/8" X 7" X 3" GALV U-BOLT		0.97	3.89
					TOTAL WT. #	53.48



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.030)
 DRILLED AND GAS CUT HOLES (± 0.030) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.010) - NO CONING OF HOLES
 BEVELS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.030)
 ALL OTHER ASSEMBLY (± 0.060)

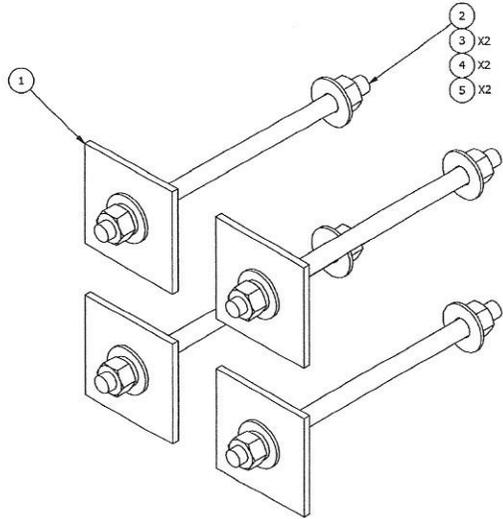
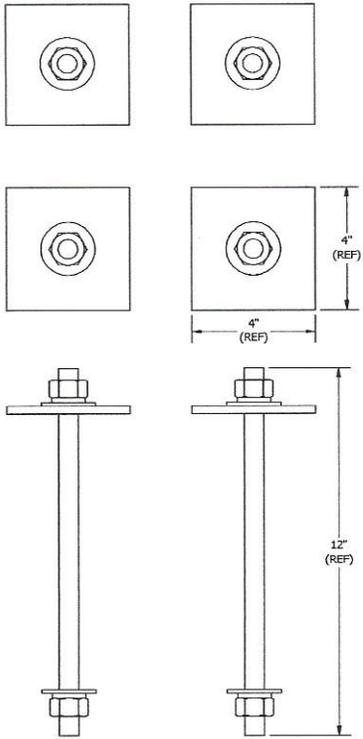
DESCRIPTION

SLIDER BRACKET WALL MOUNT
 3-1/2" & 4-1/2" O.D. ANTENNA PIPE

CPD NO.	DRAWN BY	ENG. APPROVAL
81	CEK 1/21/2015	
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 1/21/2015

PART NO.	SBWM-HD
DWG. NO.	SBWM-HD

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	BP4	1/4" x 4" FLAT STOCK	4 in	1.16	4.64
2	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
3	8	G58FW	5/8" HDG USS FLATWASHER		0.07	0.56
4	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
5	8	G58NUT	5/8" HDG HEAVY ZH HEX NUT		0.13	1.04
					TOTAL WT. #	10.63



TOLERANCE NOTES TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030) DRILLED AND GAS CUT HOLES (± 0.000) - NO CORNING OF HOLES LASER CUT EDGES AND HOLES (± 0.010) - NO CONING OF HOLES BENDS ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING (± 0.030) ALL OTHER ASSEMBLY (± 0.000)		DESCRIPTION HOLLOW WALL MOUNT KIT			
		CPD NO. CLASS SUB 81 01	DRAWN BY KC8 5/21/2012 DRAWING USAGE CUSTOMER	ENG. APPROVAL CHECKED BY CEK 7/30/2012	PART NO. HWK58 DWG. NO. HWK58

York College
80GHz 5Gb/s Link

Part Number	Description	Quantity	Unit List Price	Unit Extended Sell Price 15% State Contract	Extended Sell Price 15% State Contract
ANT-80GHZ-12-SP	ANT-80GHZ-12-SP Single Pol	4	\$ 900.00	\$ 765.00	\$ 3,060.00
ANT-80GHZ-12-DP	ANT-80GHZ-12-DP Dual Pol	6	\$ 3,000.00	\$ 2,550.00	\$ 15,300.00
UPG-80HD-ACM	UPG-80HD-ACM ACM Upgrade	16	\$ 500.00	\$ 425.00	\$ 6,800.00
AP80HD-20-LNK	AP80HD-20-LNK (Complete 1Gb Link)	8	\$ 16,695.00	\$ 14,190.75	\$ 113,526.00
UPG-80HD-2000	Aplus 2Gb/s Upgrade License	16	\$ 1,000.00	\$ 850.00	\$ 13,600.00
Included in Link Kit	ALFO Plus80 HD RJ45 waterproof IP67 Connector (Rosenberger)	32	\$ -	\$ -	Included N/C
Included in Link Kit	ALFO Plus ODU Grounding Kit	16	\$ -	\$ -	Included N/C
Included in Link Kit	ALFO Plus80 HD Pointing Cable	16	\$ -	\$ -	Included N/C
Included in Link Kit	ALFO Plus80 HD Console Cable	16	\$ -	\$ -	Included N/C
Included in Link Kit	ALFOplus80HD Power Supply Connector	16	\$ -	\$ -	Included N/C
Included in Link Kit	ALFOplus80 & ALFOplus80HD Polarization Kit	16	\$ -	\$ -	Included N/C
AGS20-IF0GE8	AGS-20, 8X10Ge LAN Interfaces 1+0, 2+0, Optical 2Gb/s Interfaces	6	\$ 3,265.00	\$ 2,775.25	\$ 16,651.50
SIAE-E01430	SFP - CAT-6 100BaseTX	8	\$ 142.00	\$ 120.70	\$ 965.60
SIAE-M02472	CAT-6 Outdoor Cable (per ft)	1000	\$ 0.80	\$ 0.68	\$ 680.00
SIAE-ICD001134	Outdoor Surge Arrestor	8	\$ 200.00	\$ 170.00	\$ 1,360.00
SIAE-E01419	SFP Module LX	0	\$ 100.00	\$ 85.00	\$ -
SIAE-E01428	SFP Module SX	12	\$ 100.00	\$ 85.00	\$ 1,020.00
Wall Bracket, Pipe, Hardware	SBWM-HD, P472, HWK58	10	\$ 700.00	\$ 595.00	\$ 5,950.00
License Fee	Link Registration	5	\$ 200.00	\$ 170.00	\$ 850.00
SIAE-P20046	100M SM	12	\$ 520.00	\$ 442.00	\$ 5,304.00
SIAE-P20037	100M MM	0	\$ 540.00	\$ 459.00	\$ -
SIAE-M10154	Outdoor Power Cable	16	\$ 295.00	\$ 250.75	\$ 4,012.00
SIAE-ICD001085	48VDC Power Supply w/ Surge Prot.	16	\$ 640.00	\$ 544.00	\$ 8,704.00
Total Equipment					\$ 197,783.10

ESS, Inc
PO Box 3051
West Caldwell, NJ 07007

York College
80GHz 5Gb/s Link

Installation and Optimization Services			
Technician	7.5	\$	9,000.00
Tower Crew Labor + Installation Materials	20	\$	27,400.00
Staging	2.5	\$	3,000.00
		\$	-
Total Services			\$ 39,400.00

Total Equipment and Services \$ 237,183.10

ESS, Inc
PO Box 3051
West Caldwell, NJ 07007



Quotation

Date: 6/28/2017
 Salesperson.: Ken Klunder
 Phone: 631 935-2610
 Email: kklunder@gnet-inc.com
 Quote Name: CUNY- York Gigamon HC101 CAPEX Quote 2017-6-28
 Quote valid until: 7/26/2017

Sold to: Kamrul Ahsan
 Company: CUNY - York
 Address1 94-20 Guy R. Brewer Blvd
 Address2 0
 City, State, Zip Jamaica, NY 11451
 Phone: (718) 262-2754
 Email: kahsan@york.cuny.edu

SKU	Description	Qty.	List Price	Unit	GSA price	G-Net Add'l Discount	G-Net Discounted Price	Total Disc % off List	Total Price
1.00	GVS-HC101 GIGAVUE-HCI NODE, 12 1G/10G CAGES, 4 10/100/1000M	1	\$ 22,995.00		\$ 22,935.21	10.00%	\$ 20,641.69	10.23%	\$20,641.69
2.00	SFP-532 10 GIG SFP+, MULTIMODE 850NM SR	12	\$ 795.00		\$ 792.93	10.00%	\$ 713.64	10.23%	\$8,563.68
3.00	Shipping Freight + Insurance	1	\$ 90.00		\$ 90.00	0.00%	\$ 90.00	0.00%	\$90.00
4.00	GPS* G-Net Implementation Servcies: Certified Gigamon Engineer to provide on-site professional servcies support for implementation and ongoing design support for one year from date of purchase.	1	\$ 1,500.00		\$ 1,500.00	0.00%	\$ 1,500.00	0.00%	\$1,500.00

Totals

\$30,795.37

Terms: 30 Days Net
 Quote Valid Until: 7/28/2017
 To Place an Order: Email to: kklunder@gnet-inc.com

Notes

GSA Pricing: This quote complies with GSA pricing as specified in GSA contract GS-35F-0119Y. Provided on this quote are list prices, GSA prices and a G-Net Solutions price which has an additional discount applied that is above and beyond GSA pricing discounts. Line item 4 is an "open market" service provided by G-Net's certified engineers and there is no comprable part number from Gigamon on the GSA price list.

*G-Net Professional Services (GPS) is delivered by a G-Net Gigamon certified engineer. GPS is good for one year from the date of purchase and includes support for initial implementation of all the products purchased by the customer during the first year after the initial purchase for deign and configuration of the Gigamon platform including after the platform is placed into production service. Support will be delivered via both On-Site (With a minimum of three business day's notice) and remote/Web based access. Additionally, for one year from date of purchase, G-Net will provide on-site operational training to customer personel. The GPS also includes a quarterly review of the platform for operational effectiveness for the life of the Gigamon support contract. (Release version, alarms, events & operational effeciency review.) The effective rate for calculating the GPS fee is 5% of the purchase price of the hardware, software licenses and support fees.



Daniel Charles II
Cisco Systems, Inc.

Price Estimate

OGS State Contract number PM20800

Price Estimate for planning and information purposes only and is not a binding offer from Cisco.

Date: 25-Aug-2017

Deal ID: NA
All prices are shown in USD
Projected Actual Cost

Projected Actual Cost calculated based on
42% volumen discount not reflected on
Vendor Quote

Line No	Item Name	Description	Service Duration	Lead Time	Included Item	Qty	List Price	Extended ListPrice	Discount %	Selling Price
1.0	SNS-3515-K9	Small Secure Network Server for ISE Applications	N/A	14 days	No	1	0.00	0.00	32.00	0.00
1.1	SW-3515-ISE-K9	Cisco ISE Software for the SNS-3515-K9 appliance	N/A	14 days	No	1	15,990.00	15,990.00	32.00	10,873.20
1.2	CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	N/A	8 days	No	1	0.00	0.00	32.00	0.00
1.3	SNS-CPU-E52620D	2.40 GHz E5-2620 v3/6C	N/A	14 days	Yes	1	0.00	0.00	32.00	0.00
1.4	SNS-MR-1X081RU-A	8GB DDR4-2133 Mhz Memory Module	N/A	14 days	Yes	2	0.00	0.00	32.00	0.00
1.5	R2XX-RAID0	Enable RAID 0 Setting	N/A	10 days	Yes	1	0.00	0.00	32.00	0.00
1.6	SNS-MLOM-IRJ45	MLOM Intel -Quad Port 1Gb RJ45	N/A	14 days	Yes	1	0.00	0.00	32.00	0.00
1.7	SNS-HD600G10K12G	600GB SAS 10K RPM HDD	N/A	14 days	Yes	1	0.00	0.00	32.00	0.00
1.8	SNS-PSU1-770W	770W power supply	N/A	14 days	Yes	1	0.00	0.00	32.00	0.00
1.9	SNS-MRAID12G-1GB	1GB FBWC for Cisco 12G SAS Modular RAID	N/A	14 days	Yes	1	0.00	0.00	32.00	0.00
1.10	SNS-MRAID12G	Avila Cisco 12G SAS Modular Raid Controller	N/A	14 days	Yes	1	0.00	0.00	32.00	0.00
SubTotal										10,873.20
2.0	L-ISE-BSE-5K=	Cisco Identity Services Engine 5000 EndPoint Base License	N/A	2 days	No	1	15,000.00	15,000.00	32.00	10,200.00
SubTotal										10,200.00
Estimate Total										21,073.20

Projected Volume Discount (%)	Volume Discount Unit Price	Volume Discount Extended Price
42%	-	-
42%	9,274.20	9,274.20
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
42%	-	-
SubTotal		9,274.20
42%	8,700.00	8,700.00
SubTotal		8,700.00
Estimate Total		17,974.20

*** Notes

This estimate, calculatd by YORK, is based on on NYS OGS Contract Number: PM20800. The Projected Actual Cost were calculated based on a 42% volumen discount the vendor provides beyond the 32% discount in NYS OGS contract.



CREATIVE CABLING SOLUTIONS, INC.

Providing the solution to your cabling needs!

June 28, 2017

York College
The City University of New York
Jamaica, New York 11451
Att: Kamrul Ahsan

Re: Fiber Cabling to redundant Data Center

Quote No. York-062817.1020

Mr. Ahsan:

Following is our cabling quote for the work requested at the Academic Core Building as requested. Please review and call me with any questions.

Scope of Work:

1. Provide new fiber cable from 25 remote wire closets to new redundant data center 1H07 except for remote closet 2H2 which will be routed back to Data Center 2E03. Refer to closet list below
2. All new fiber cable between remote closets and 1H07 to be OM4 12 strand armored, plenum cable.
3. At remote closet location furnish and install wall mounted fiber box
4. At closet 1H07 furnish and install 4U fiber tray
5. All cables to be terminated with SC connectors
6. All new cabling to be routed above hung ceiling
7. Where required CCSI to provide vertical coring in order to route new cabling
8. Owner to provide and install network equipment
9. All work to be done during normal business hours
10. All cables to be labeled and tested to 10G parameters
11. CCS to provide soft copy of all test results to owner
12. CCS to provide as-built drawings



CREATIVE CABLING SOLUTIONS, INC.

Providing the solution to your cabling needs!

From Closet	To Closet	Type of Cable
1H06	1H07-256	OC4
1H3	1H07-256	OC4
1F2	1H07-256	OC4
1F1	1H07-256	OC4
1D	1H07-256	OC4
1B	1H07-256	OC4
1G	1H07-256	OC4
2H1	1H07-256	OC4
2B	1H07-256	OC4
2G	1H07-256	OC4
2F	1H07-256	OC4
2D	1H07-256	OC4
2E	1H07-256	OC4
2H2	2E03	OC4
3D	1H07-256	OC4
3F	1H07-256	OC4
3G2	1H07-256	OC4
3H	1H07-256	OC4
3B	1H07-256	OC4
3G1	1H07-256	OC4
4D	1H07-256	OC4
4TV	1H07-256	OC4
4F	1H07-256	OC4
4G	1H07-256	OC4
LFT-15	1H07-256	OC4
LBT-780	1H07-256	OC4

Please note our pricing is based on the NY OGS State Contract which CCSI hold one of the contracts. Our state contract information is as follows:

Group 77018
Award 21350
Contract No. PT64257

Assumptions

1. Electrical by others
2. Owner to indicate location of new fiber at cabinet location at 1H07
3. Owner to provide and install new racks at 1H07 if required
4. Owner to provide access to all closet on a timely manner



CREATIVE CABLING SOLUTIONS, INC.

Providing the solution to your cabling needs!

Pricing from IDFs to MDFs:

Material: \$87,140.92

Labor: \$162,650.47

Grand Total: \$249,791.39

Pricing between MDF(2E03A-342) to MDF(1H07-256)

Material: \$18,893.52

Labor: \$9,420.00

Grand Total: \$28,313.52

If you agree with the quoted pricing please provide a purchase order so we may begin the installation process. You can fax (516-867-5566) or email the purchase order to George Canteros @ gcanteros@creativecablingsolutions.com

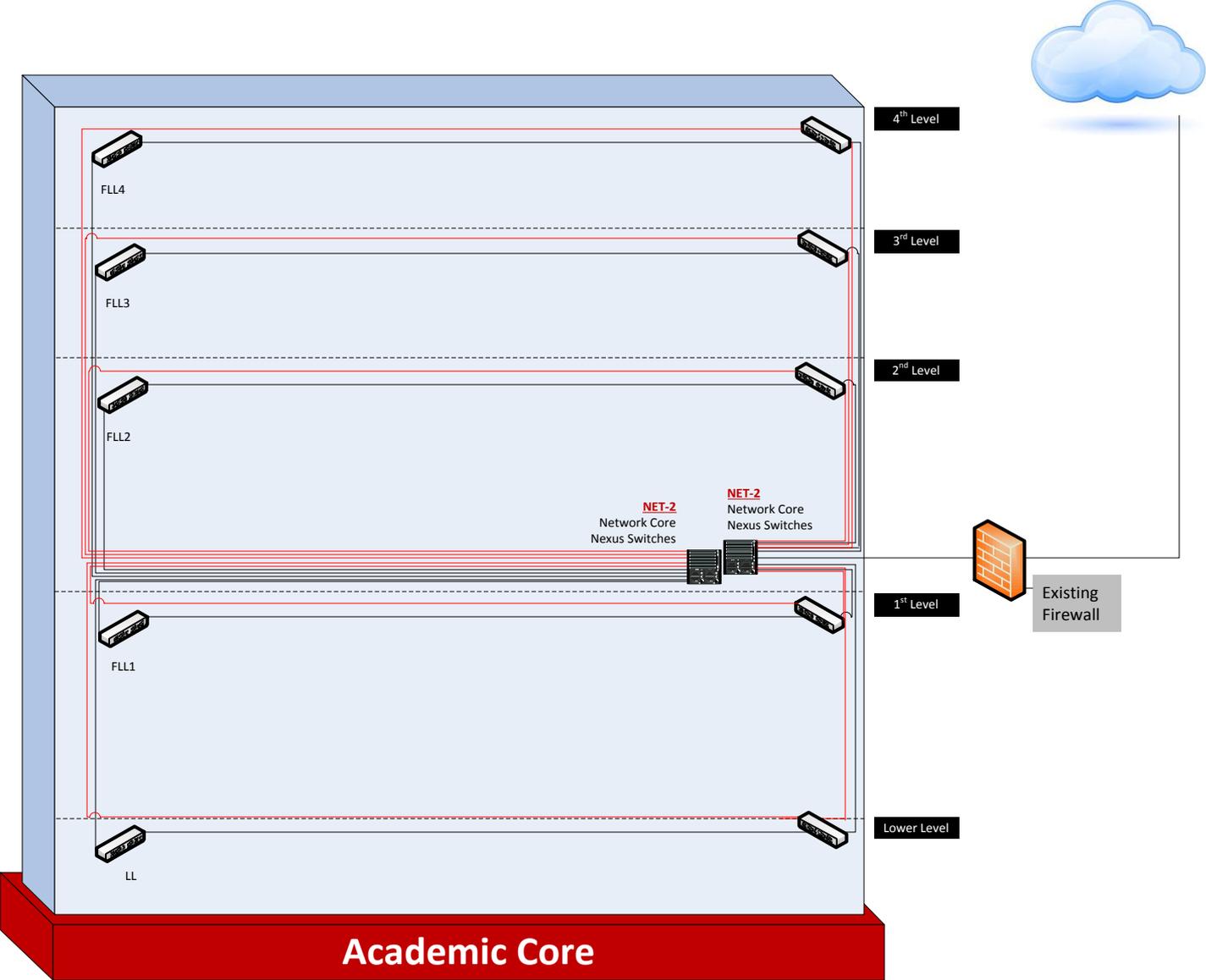
Please call me with any questions regarding our quote.

Thank You,

George Canteros
Sales Representative
Creative Cabling Solutions Inc.
P. 516-867-5577
F. 516-867-5566
C. 631-332-7896

Proposed Architecture

Fiber Redundancy to Network Core Nexus Switches





Savings \$3,955.38

Subtotal (43) **\$20,084.19**

Price does not reflect applicable shipping, taxes and state environmental fee.

Details	Billing	Shipping	Payment method
<p>Net-8-cabinet-KVM-UPS Quote number# 1019112235147 Created July 10, 2017 Expires October 8, 2017 Created by stephen@york.cuny.edu</p>	<p>Order contact Stephen Yu, York College Dell Contract Code: 56AHC Customer agreement number: PM20820/1000041162 Phone: (718) 262-2739 Additional:: stephen@york.cuny.edu</p>	<p>Delivery method no charge delivery Trade compliance No, I will not be exporting</p>	

Items	Quantity	Unit Price	Item total
 <p>APC Smart-UPS SRT 10000VA RM - UPS - 10 kW - 10000 VA - with 208/240V to 120V 10kVA Step-Down Transformer Dell Contract Code: 56AHC Manufacturer Part# : SRT10KRMXLT-10KTF Dell Part# : A8668999 Estimated Ship Date July 14, 2017</p>	1	\$7,693.99	\$7,693.99
<p>Premier discount</p>			-\$754.98
			Item total: \$6,939.01

Bundle: Dell Digital 16 Port KVM

 <p>Dell Digital 16 Port KVM Dell Contract Code: 56AHC Estimated Ship Date July 10, 2017</p>	2	\$3,299.99	\$6,599.98
<p>Premier discount</p>			-\$1,320.00
<p>Catalog Number: 84 / dmpu2016g01</p>			
Category	Description	Code	SKU
Base	DMPU2016-G01 Dell 16-port Remote Cosole Switch with two remote users, one local use r, dual power su	546774	[A7546774]
			ID
			1

Grouped with your Dell Digital 16 Port KVM

 <p>Dell USB SIP for Digital and Analog KVMs. Server Interface Module for VGA, USB keyboard, mouse supp Dell Contract Code: 56AHC Manufacturer Part# : DMPUIQ-VMCHS-G01 Dell Part# : A7547276</p>	21	\$129.99	\$2,729.79
<p>Premier discount</p>			-\$760.62
 <p>Dell Serial Interface Pod for Digital KVMs. Serial interface module for DMPU KVMs. Dell Contract Code: 56AHC Manufacturer Part# : DMPUIQ-SRL-G01 Dell Part# : A7547277</p>	12	\$126.99	\$1,523.88
<p>Premier discount</p>			-\$398.64
			Bundle Total: \$8,374.39



American Power Conversion 14-Outlet Basic Rack PDU

3

\$159.99

\$479.97

Dell Contract Code: 56AHC
 Manufacturer Part# : AP9551
 Dell Part# : A0040621

Estimated Ship Date
 July 10, 2017

Premier discount

-\$64.11

Item total: \$415.86



APC Smart-UPS 2200VA RM 2U UPS Battery Backup (SMT2200RM2U)

3

\$1,049.99

\$3,149.97

Dell Contract Code: 56AHC
 Manufacturer Part# : SMT2200RM2U
 Dell Part# : A7383000

Estimated Ship Date
 July 10, 2017

Premier discount

-\$265.29

Item total: \$2,884.68



Dell EMC NetShelter SX 600mm wide x 1200mm Deep Enclosure with Sides - Black

1

\$1,861.99

\$1,861.99

Dell Contract Code: 56AHC
 Manufacturer Part# : AR3300X717
 Dell Part# : A9662451

Estimated Ship Date
 July 11, 2017

Premier discount

-\$391.74

Item total: \$1,470.25

Savings: \$3,955.38

Subtotal (43): \$20,084.19

Savings

\$3,955.38

Subtotal (43)

\$20,084.19

Price does not reflect applicable shipping, taxes and state environmental fee.

Same day shipment subject to order size limitations, Dell standard shipping methods and payment via credit card, gift card or Dell Business Credit. Notification will be provided if there are payment delays which could impact shipping date. Electronics and accessories may ship separately.

Smart Selection. Limited quantities. Only available for orders placed by 5:59 p.m. CT Mon.-Thurs. Systems shipped the next business day after an order is placed. Subject to order approval. Software and accessories not part of the configuration will be shipped separately and may arrive after your system. Please note that Smart Selection Configuration pricing cannot be combined with other pricing offers or discounts provided or agreed to by Dell. ** Orders with Custom Factory Integration might require additional processing time.

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¹Subject to applicable law and regulations.

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Savings

\$8,777.14

Subtotal (1)

\$14,944.86

Price does not reflect applicable shipping, taxes and state environmental fee.

Dell Contract Code: 56AHC

Customer agreement number: PM20820/1000041162

Items	Quantity	Unit Price	Item total
--------------	-----------------	-------------------	-------------------

PowerEdge R730 - Fully configurable

1

\$23,722.00

\$23,722.00

Estimated Ship Date

Ships in 3 - 5 business days



Premier discount

Catalog Number: 84 / pe_r730_1356

-\$8,777.14

Category	Description	Code	SKU	ID
PowerEdge R730	PowerEdge R730 Server	R73X	[210-ACXU] [329-BCZK]	1
Trusted Platform Module (TPM)	No Trusted Platform Module	NTPM	[461-AADZ]	1574
Chassis Configuration	Chassis with up to 16, 2.5" Hard Drives, MLK	2516HX	[350-BBIL]	1530
Shipping	PowerEdge R730 Shipping	DSHIP	[340-AKKB]	1500
Processor	Intel® Xeon® E5-2680 v3 2.5GHz,30M Cache,9.60GT/s QPI,Turbo,HT,12C/24T (120W) Max Mem 2133MHz	12025	[338-BFFJ]	1550
Additional Processor	Intel® Xeon® E5-2680 v3 2.5GHz,30M Cache,9.60GT/s QPI,Turbo,HT,12C/24T (120W) Max Mem 2133MHz	A12025	[374-BBGQ]	1551
Processor Thermal Configuration	2 CPU Standard	2CPU	[370-ABWE] [374-BBHM] [374-BBHM]	1697
Memory DIMM Type and Speed	2400MT/s RDIMMs	2400MT	[370-ACPH]	1561
Memory Configuration Type	Performance Optimized	PEOPT	[370-AAIP]	1562

Category	Description	Code	SKU	ID
Memory Capacity	(14) 32GB RDIMM, 2400MT/s, Dual Rank, x4 Data Width	32GBMM	[370-ACNS]	1560
RAID Configuration	RAID 0 for H330/H730/H730P (1-16 HDDs or SSDs)	R0H	[780-BBJT]	1540
RAID Controller	PERC H730 RAID Controller, 1GB NV Cache	H7301G	[405-AAEG]	1541
Hard Drives	1TB 7.2K RPM SATA 6Gbps 2.5in Hot-plug Hard Drive	1TA25	[400-AEFC]	1570
Network Daughter Card	Broadcom 5720 QP 1Gb Network Daughter Card	5720QP	[540-BBBW]	1518
Embedded Systems Management	iDRAC8 Express, integrated Dell Remote Access Controller, Express	I8EXP	[385-BBHN]	1520
Internal SD Module	Internal Dual SD Module with 2x 8GB SD Cards	28GSD	[330-BBCL] [385-BBCF] [385-BBJM] [385-BBJM]	1640
Internal Optical Drive	No Internal Optical Drive	NODVD	[429-AAOJ]	1600
Bezel	No Bezel	NOBEZL	[350-BBBW]	1532
Rack Rails	ReadyRails™ Sliding Rails With Cable Management Arm	RRCMA	[770-BBBR]	1610
Power Management BIOS Settings	Performance BIOS Setting	HPBIOS	[384-BBBL]	1533
Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	1100R	[450-ADWM]	1620
Power Cords	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America	125V10	[450-AALV]	1621
System Documentation	No Systems Documentation, No OpenManage DVD Kit	NODOCS	[631-AACK]	1590
Operating System	No Operating System	NOOS	[619-ABVR]	1650
OS Media Kits	No Media Required	NOMED	[421-5736]	1652
Order Information	US No Canada Ship Charge	USNONE	[332-1286]	111

Category	Description	Code	SKU	ID
PCIe Riser	Risers with up to 3, x8 PCIe Slots + 1, x16 PCIe Slots	RSR31	[330-BBCO] [330-BBCQ] [374-BBHS]	1510
Service	3Yr Basic HW Warranty Repair, 5x10 NBD Onsite	U3OS	[976-8706] [976-8778] [991-2878] [996-8029]	29
Deployment Services	No Installation	NOINSTL	[900-9997]	714
Remote Consulting Services	Declined Remote Consulting Service	NORCS	[973-2426]	735

Item total: \$14,944.86

Savings: \$8,777.14

Subtotal (1): \$14,944.86

Savings \$8,777.14

Subtotal (1) \$14,944.86

Price does not reflect applicable shipping, taxes and state environmental fee.

Same day shipment subject to order size limitations, Dell standard shipping methods and payment via credit card, gift card or Dell Business Credit. Notification will be provided if there are payment delays which could impact shipping date. Electronics and accessories may ship separately.

Smart Selection. Limited quantities. Only available for orders placed by 5:59 p.m. CT Mon.–Thurs. Systems shipped the next business day after an order is placed. Subject to order approval. Software and accessories not part of the configuration will be shipped separately and may arrive after your system. Please note that Smart Selection Configuration pricing cannot be combined with other pricing offers or discounts provided or agreed to by Dell. ** Orders with Custom Factory Integration might require additional processing time.

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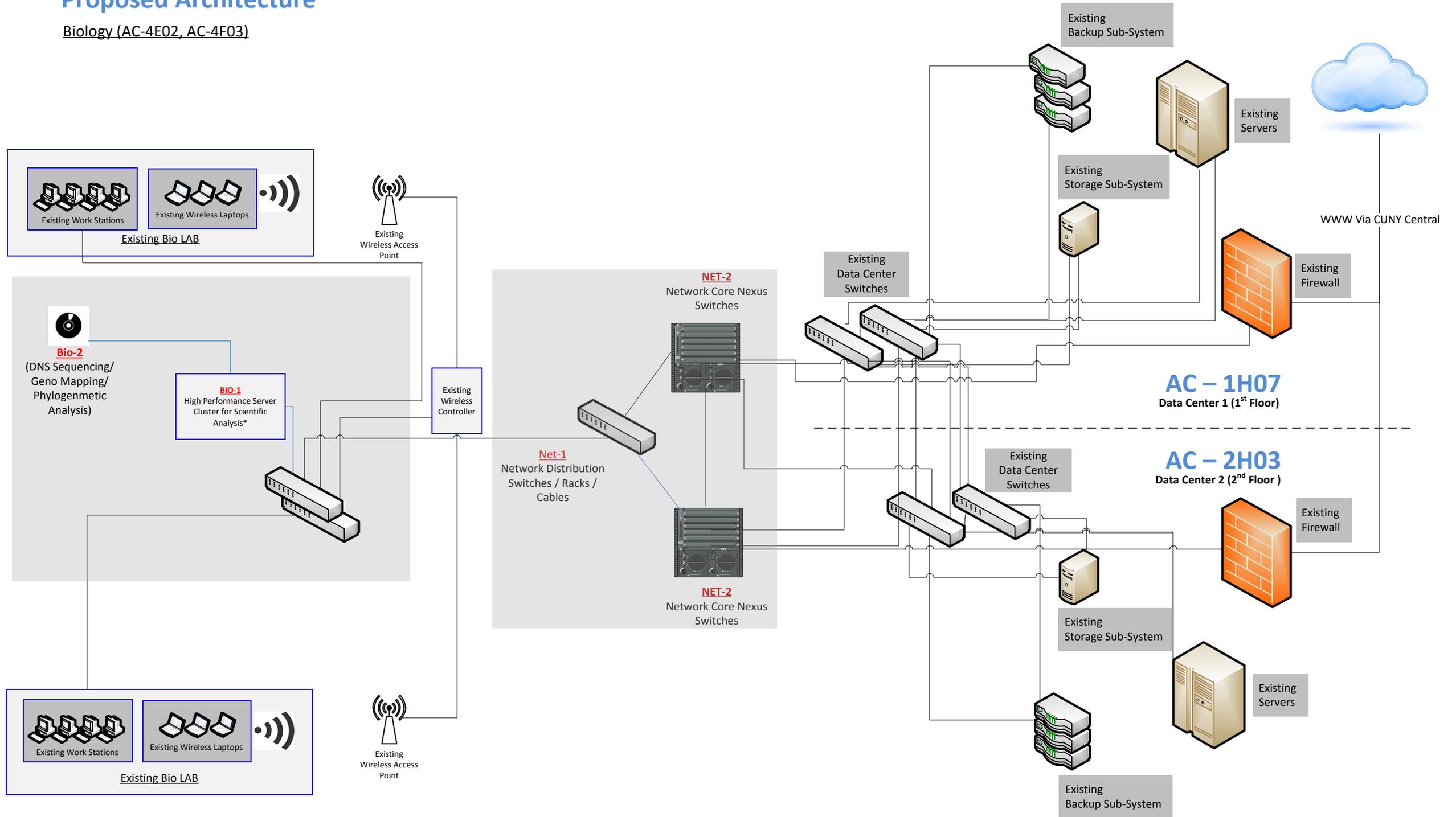
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Biology

High Level Drawing and Quotes

Proposed Architecture

Biology (AC-4E02, AC-4F03)





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York College
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718-262-2711

Quotation # 44-061417-01
Valid Through: 06/28/2017
Terms: Net 30
FOB: Destination / Shipping Costs
are included

GSA Contract # GS-35F-0598R

POWERWULF™ BIO TITANIUM CLUSTER (PN: PS-PW F-CSTM-DH)

The PowerWulf™ Bio Titanium Cluster is a custom configured high performance computing solution designed specifically to meet the computing needs of the York College. The PowerWulf™ Bio Titanium Cluster will be delivered preconfigured with our CBeST Cluster Management Toolkit and optimized for maximum performance.

The PowerWulf™ Titanium Cluster Compute Engine contains:

- 1 Master Node and 6 Compute Nodes
 - Detailed Description of Nodes on Following Page
- 160 Total Intel® Xeon® E5-2600 v4 Cloud Series CPU Cores
 - 320 Total Cores with Hyperthreading enabled
 - 144 Total 2.2 GHz Cores on Compute Nodes
 - 16 Total 2.1 GHz Cores on Head Node
- 448 GB Total High Performance ECC System Memory
 - 2.67 GB per Compute Node Processor Core
 - 4 GB per Master Node Processor Core
- 10+ TB of RAW Storage Space
 - 2 TB Configured as RAID 1 on Head Node (OS & Cluster Management)
 - 2 TB for Data Storage on Head Node
 - 1.0 TB Scratch / Data Space per Compute Node
- 1 x Edge-Core 5600-52X-D2-AC-F 48 Port 10G SFP+ Switch
- Remote Management & Monitoring Network Included
- All necessary Rack and Power Infrastructure included
 - 1 x 42U Rack Enclosure
 - 2 x 20 AMP / 220 V / Three Phase PDU
 - All necessary Power & Network Cables Provided by PSSC Labs
- Additional Head Node Power Redundancy Included
- CBeST Cluster Management Toolkit
 - CentOS Linux Latest PSSC Labs Supported 64 Bit Operating System
 - CBeST Feature Details on Following Page
- Onsite Installation including CBeST & Hardware Training Seminar
 - Does not Include Additional Software Installation
- Three Year Complete Warranty Coverage
 - Warranty Details on Following Pages



Image is representative only.

The ability to upgrade all system components including processor cores, memory, network backplane & available storage is built into the PowerWulf ZXR1+ Cluster. The system will grow along with your computing needs.



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PRICING DETAILS

Retail Price: \$113,995.00

- New Customer Discount: subtract \$20,000.00
- Life Sciences Discount: subtract \$20,000.00

FINAL PRICE: \$73,995.00

Price does not include applicable state, use, or sales tax



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NODE CONFIGURATION DETAILS

Head Node Includes:

- 16 x Intel Xeon E5 2620 v4 Cloud Ready Processor Cores / 2.1 GHz
 - 2 x E5-2620 v4 CPU's, 8.0GT/sec QPI
- 64 GB of High Performance 2400 MHz ECC system memory
- 2 x 1.0 TB SATA III 6Gbps 7200 RPM GOLD RAID Level Enterprise Hard Drives
 - Configured for RAID 1 for OS and CBeST Cluster Tools
- 2 x 1.0 TB SATA III 6Gbps 7200 RPM GOLD RAID Level Enterprise Hard Drives
 - Configured for RAID 1 for Data
- LSI 9361-4i 6/12Gbps SAS/SATA III RAID Controller
- 2 x 10/100/1000 BaseT Gigabit On-board Network Adapters
- 10/100/1000 IPMI Remote Management Port
- 1 x Dual Port 10 GigE / PCI Express x8 Adapter
- REDUNDANT Power Supply with 80%+ Energy Efficient Enterprise Class Power Source

Each Compute Node Includes (6 Total Nodes):

- 24 x Intel Xeon E5 2650 v4 Cloud Ready Processor Cores / 2.2 GHz
 - 2 x E5-2650 v4 CPU's, 9.6GT/sec QPI
- 64 GB of High Performance 2400 MHz ECC system memory
- 1 x 1.0 TB SATA III 6Gbps 7200 RPM GOLD RAID Level Enterprise Hard Drives
- 2 x 10/100/1000 BaseT Gigabit On-board Network Adapters
- 10/100/1000 IPMI Remote Management Port
- 1 x Dual Port 10 GigE / PCI Express x8 Adapter
- 90%+ Energy Efficient Enterprise Class Power Source
- Tool Free Patent Pending Rackmount Chassis



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SERVICES INCLUDE

- Installation of CBeST® v. 4.0 Complete Beowulf Software Toolkit including:
 - Setup of and installation of CentOS 7.X x 64-bit
 - Message Passing Libraries (OpenMPI standard, options available)
 - TORQUE Scheduling System
 - Ganglia Cluster Monitoring Utility and Custom Scripting
 - Temperature Monitoring & Auto Shutdown Script
 - Clonezilla to facilitate imaging compute nodes
 - PowerScripts for Remote Cluster or Node Reboot, Remote Cluster or Node Shutdown
 - Security Patches (Port Mapper, IP Chains/Tables and Latest Security Updates)
 - Scientific Libraries (LAPACK & BLAS)
 - GNU Compilers (C & Fortran standard, options available)
- CBeST® Operation Manual (35+ page) detailing installation, operation, maintenance and support
- CBeST® Support: PSSC Labs will extend the CBeST® support to 3 years. Our standard warranty includes 1 year CBeST® support. See p.4 for details.
- Hardware Warranty: PSSC Labs will upgrade the standard warranty from 1 year return to depot to 3 year on-site. See p.4 for details.
- Maintenance Kit. An extensive maintenance kit will ship with the cluster. The maintenance kit allows for immediate replacement of critical failed components.
- IPMI Remote Network Management Configuration. Allows remote access to all nodes for system management.
- Complete Recovery (CPR) Toolkit. PSSC Labs will keep a copy of your image at our facility.
- Performance Tuning. PSSC Labs Cluster Technicians have 10+ years experience optimizing system hardware for maximum performance. Performance tuning encompasses every step of the integration process including:
 - Optimizing BIOS settings for specific hardware
 - Installation of latest component drivers
 - Installation of necessary firmware updates
 - Compiling MPI with various flags for maximum performance
- Net Connect Integration Service. Prior to software installation by PSSC Labs Cluster Technicians, end user will provide the necessary network information including (cluster name, IP address, subnet, gateway, etc). Once this information is received, PSSC Labs will verify the information and properly configure the PowerWulf Cluster network. All network settings will be tested prior to shipping. End user will simply need to connect a network cable to begin communicating with the PowerWulf Cluster and run jobs.
- Site Preparation Guide. Gathers information regarding computing environment and network settings to ensure proper connectivity, power and cooling.





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WARRANTY DETAILS

Hardware Support

Each system includes a THREE year return to depot hardware warranty (unless otherwise noted). The warranty services coverage is limited only to PSSC Labs manufactured systems specified on the quotation or technical specifications document. Under no circumstances will the hardware warranty be extended to peripherals or other components added by anyone other than PSSC Labs. Any negligent or malicious treatment of system hardware including but not limited to improper computing environment, unacceptable operating room temperatures, and/or inappropriate firewall as specified by PSSC Labs is considered grounds for voiding warranty service. Shipping costs to PSSC Labs are the responsibility of the end user. PSSC Labs is responsible for all return shipping cost. In order to reduce system down-time, PSSC Labs strongly recommends purchasing our System Maintenance Kit. This System Maintenance Kit includes system components most likely to fail (hard drive, power supply, items with moving parts). On-Site Hardware Support Services are available for up to three years. On-Site Hardware Support Services can be purchased on an annual or per incident basis. Contact your Sales Representative for annual and per incident pricing.

CBeST™ Support

PSSC Labs can preinstall and test the CBeST™ Cluster Management Toolkit. PSSC Labs is responsible for the integration of various software packages (commercial and open source) that constitute CBeST. PSSC Labs is not responsible for making changes to the source code, writing custom scripts or debugging any third party software application (commercial and open source). As part of CBeST installation, PSSC Labs Cluster Technicians will need to establish internal system network configuration settings. These settings (including domain name) cannot be changed without prior notice to PSSC Labs. Making internal system network changes without PSSC Labs consent is prohibited and can void the warranty. No custom configuration, customer scripts or other software changes are included. CBeST Support is included for one year. During this time, the end user may contact PSSC Labs an unlimited number of times via email and telephone. A support ticket must be opened on PSSC Labs website. Our Cluster Technicians are available to discuss the cluster network settings and installed CBeST packages. Cluster Technicians may refer to system manual or online information. If necessary, Cluster Technicians can log into system to verify proper CBeST functionality. If CBeST is not functioning properly, Cluster Technicians can ONLY return system to proper factory installed condition. If during the support process, PSSC Labs determines that the system is not functioning due to unauthorized system changes or unacceptable computing environment (as specified in the site preparation guide) the customer will be notified and sent a void of warranty notification. The end user will have 30 days to return system configuration to factory installed settings at which time PSSC Labs can reinstate the warranty. Cluster Technicians can be contracted in order to return system to factory installed conditions.

Limits of Liability

In no event will PSSC Labs be liable to the customer for lost profits or any form of indirect, special, incidental, or consequential damages of any form from any causes of action of any kind with respect to any order, whether based on breach of contract, tort (including negligence), or otherwise, and whether or not the other party has been advised of the possibility of such damage. Recourse is limited only to the value of the purchase price.

All terms and conditions listed on the PSSC Labs website (www.pssclabs.com) apply to this quotation.



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STATEMENT OF PAST PERFORMANCE

PSSC Labs provides high performance computing solutions to the worlds most prestigious and demanding organizations including NASA, US Department of Defense, Harvard University and many more. Our hardware knowledge, software expertise and support ensure that PSSC Labs end users receive the best possible solution at a competitive price. PSSC Labs recently surpassed a milestone achievement by delivering our 2000th PowerWulf Cluster. We also recently earned the distinction of the world's leading provider of turn-key, high performance computing solutions for life science research and more specifically next generation sequencing.

PSSC Labs delivered its first PowerWulf Linux cluster in 1996 to the University of California at Irvine (UCI). Since that time PSSC Labs has delivered over 2000 PowerWulf Clusters to government, university and research organizations in 35 unique countries. This experience helps our cluster technicians develop CBeST (Complete Beowulf Software Toolkit) the most full featured, easy to use and best supported cluster management software package available today. CBeST is comprised of custom scripts and open source software tools elegantly integrated and custom configured for each unique cluster hardware configuration. CBeST allows you to easily manage, monitor, maintain and upgrade your cluster. Our cluster technicians offer unlimited lifetime support for all CBeST. For complete CBeST details please visit http://www.pssclabs.com/support_cbest.asp

Our record of delivering excellent quality products combined with responsive and knowledgeable support is the primary reasons for our success. Below is a list of organizations currently using PSSCLabs PowerWulf Clusters. Feel free to contact them as references. If you would like additional references please visit <http://www.pssclabs.com/company/endorsement.asp>

Organizations currently using PSSC Labs PowerWulf Clusters

Commercial/Research

Roche Diagnostics
Northrop Grumman
Agencourt Biosciences
Seqwright
Max Planck Institute
Beijing Institute of Genomics
Beth Israel Medical Center
Booz Allen Hamilton
British Airways CACI
Technologies Computer
Sciences Corp.
Concurrent Pharmaceuticals
Sanger Institute
Riken Institute
Memorial Sloan Kettering
Advanced Technologies
Leeds Institute of Medicine
Qingdao Institute of Bio-energy

Universities

MIT
Harvard University
Northwestern UC
Berkeley Stanford
University Yale
University Johns
Hopkins Boston
University
New York University
Northeastern University
Rice University
City University New York
University of Liverpool
University of Sao Paulo
University of Ontario
National Yang-Ming University
Anand Agricultural University
Newcastle University

Government Agencies

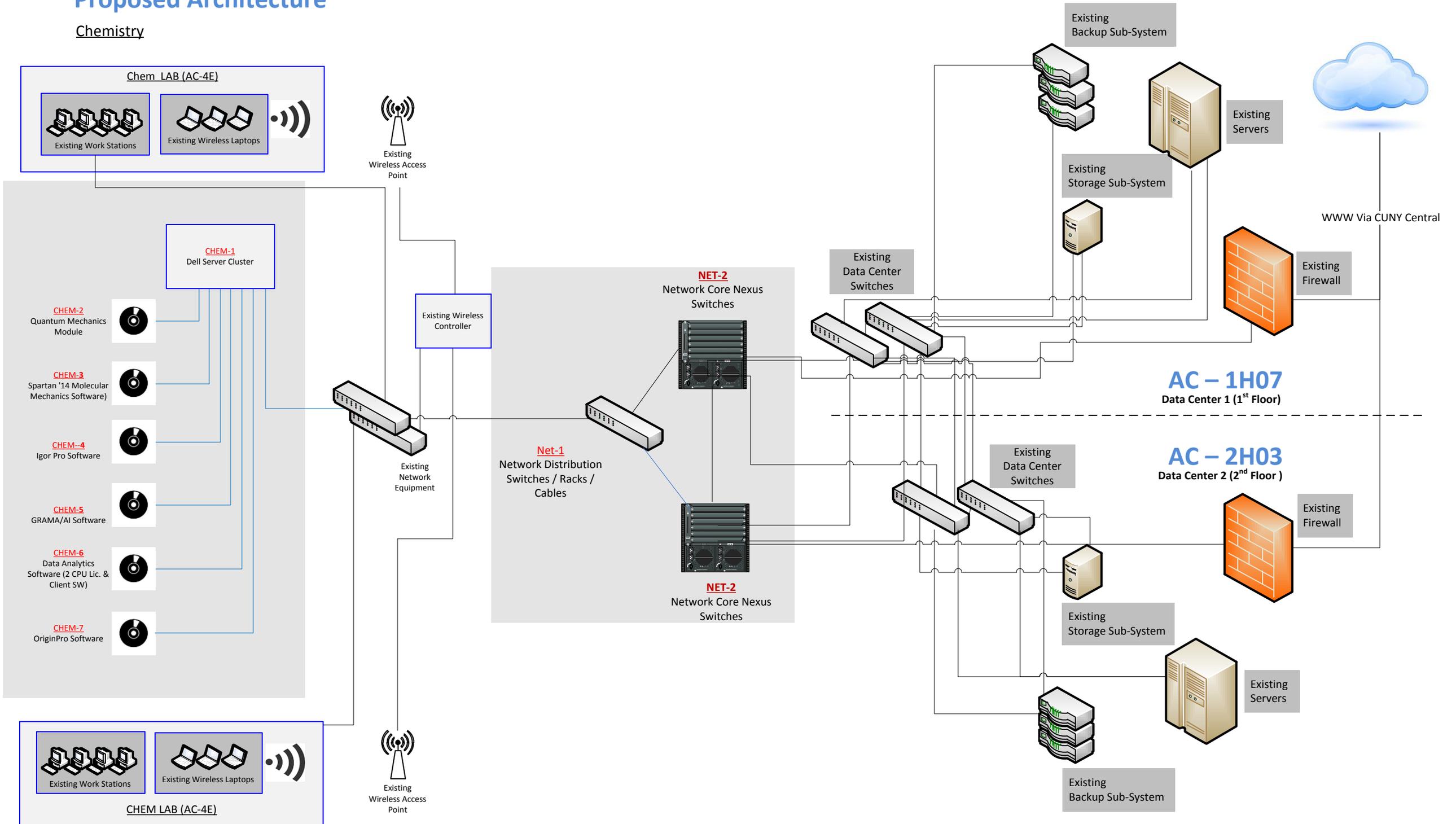
NASA
NOAA
US Army Research Labs
US Army Redstone Arsenal
US Naval Research Labs
US Department of Agriculture
US Center for Disease Control
US Nuclear Regulatory Commission
Lawrence Berkeley National Labs
Los Alamos National Labs
Argonne National Labs
Idaho National Laboratory
VA Healthcare System
National Institute of Infectious
Disease (Japan)
National Institute of Oncology
National Botanical Research
Institute (India)

Chemistry

High Level Drawing and Quotes

Proposed Architecture

Chemistry





Savings

\$63,867.96

Subtotal (6)

\$99,896.04

Price does not reflect applicable shipping, taxes and state environmental fee.

✓ You've successfully saved a new eQuote - #1025505269627

Details	Billing	Shipping	Payment method
<p>CHEM-1-servers-R830 Quote number# 1025505269627 Created July 12, 2017 Expires October 10, 2017 Created by stephen@york.cuny.edu</p>	<p>Order contact Stephen Yu, York College Dell Contract Code: 56AHC Customer agreement number: PM20820/1000041162 Phone: (718) 262-2739 Additional:: stephen@york.cuny.edu</p>	<p>Delivery method no charge delivery Trade compliance No, I will not be exporting</p>	

Items	Quantity	Unit Price	Item total
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PowerEdge R830 - Fully configurable

6

\$27,294.00

\$163,764.00

Dell Contract Code: 56AHC

Estimated Ship Date

Ships in 8 - 10 business days

Premier discount

-\$63,867.96

Catalog Number: 84 / pe_r830_1190

Category	Description	Code	SKU	ID
PowerEdge R830	PowerEdge R830 Server	PER830	[210-AIBO] [329-BDJF]	1
Service	3 Years Basic Hardware Warranty Repair: 5x 10 HW-Only, 5x10 NBD Onsite	NBD3	[810-0412] [810-0421]	29
Shipping Information	US No Canada Ship Charge	USNONE	[332-1286]	111
Deployment Services	No Installation	NOINSTL	[900-9997]	714
Remote Consulting Services	Declined Remote Consulting Service	NORCS	[973-2426]	735
Shipping	PowerEdge R830 Shipping	DSHIP	[340-BBSB]	1500
Network Daughter Card	QLogic 57800 2x10Gb DA/SFP+ + 2x1Gb BT Network Daughter Card	5780DA	[540-BBBY]	1518
Embedded Systems Management	iDRAC8, Enterprise with vFlash 8GB SD	VI8EN	[385-BBHO] [385-BBHZ]	1520
Chassis Configuration	Chassis with up to 16, 2.5" Hard Drives	1625HD	[321-BCET]	1530
Bezel	Bezel	BEZEL	[350-BBEJ]	1532
Power Management BIOS Settings	Performance BIOS Setting	HPBIOS	[384-BBBL]	1533
Advanced System Configurations	UEFI BIOS Boot Mode with GPT Partition	UEFIB	[800-BBDM]	1534
RAID Configuration	RAID 6 for H730/H730P (4-16 HDDs or SSDs)	C5MSR6	[780-BBZK]	1540
RAID Controller	PERC H730P RAID Controller, 2GB NV Cache	H730P	[405-AACU] [440-BBGW]	1541
Processor	2x Intel® Xeon® E5-4620 v4 2.1GHz,25M Cache,8.0 GT/s QPI,Turbo,HT,10C/20T (105W) Max Mem 2133 MHz	54620P	[338-BJHR]	1550

Category	Description	Code	SKU	ID
Additional Processor	Upgrade to Four Intel® Xeon® E5-4620 v4 2.1GHz,25M Cache,8.0 GT/s QPI,Turbo,HT,10 C/20T (105W)	54620A	[374-BBLY]	1551
Memory Capacity	(12) 16GB RDIMM, 2400MT/s, Dual Rank, x8 Data Width	16GBMM	[370-ACNX]	1560
Memory DIMM Type and Speed	2400MT/s RDIMMs	2400MT	[370-ACPH]	1561
Memory Configuration Type	Performance Optimized	PEOPT	[370-AAIP]	1562
Hard Drives	(6) 1TB 7.2K RPM SATA 6Gbps 2.5in Hot-plug Hard Drive	1TBES	[400-AIUW]	1570
Trusted Platform Module	No Trusted Platform Module	NTPM	[461-AADZ]	1574
System Documentation	No Systems Documentation, No OpenManage DVD Kit	NODOCS	[631-AACK]	1590
Internal Optical Drive	DVD+/-RW, SATA, Internal	DVRWSA	[429-AAPS]	1600
Rack Rails	ReadyRails™ Sliding Rails With Cable Management Arm	RRCMA	[770-BBBR]	1610
Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	1100R	[450-ADWM]	1620
Power Cords	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America	125V10	[450-AALV]	1621
Internal SD Module	Internal Dual SD Module with 2x 8GB SD Cards	28GSD	[330-BBCL] [385-BBCF] [385-BBJM] [385-BBJM]	1640
Operating System	No Operating System	NOOS	[619-ABVR]	1650
OS Media Kits	No Media Required	NOMED	[421-5736]	1652
Processor Thermal Configuration	4 CPU	4HTSNK	[370-ACPJ] [374-BBNG] [412-AAHZ] [412-AAHZ]	1697

Item total: \$99,896.04

Savings: \$63,867.96

Subtotal (6): \$99,896.04

Savings \$63,867.96

Subtotal (6) \$99,896.04

Price does not reflect applicable shipping, taxes and state environmental fee.

Same day shipment subject to order size limitations, Dell standard shipping methods and payment via credit card, gift card or Dell Business Credit. Notification will be provided if there are payment delays which could impact shipping date. Electronics and accessories may ship separately.

Smart Selection. Limited quantities. Only available for orders placed by 5:59 p.m. CT Mon.–Thurs. Systems shipped the next business day after an order is placed. Subject to order approval. Software and accessories not part of the configuration will be shipped separately and may arrive after your system. Please note that Smart Selection Configuration pricing cannot be combined with other pricing offers or discounts provided or agreed to by Dell. ** Orders with Custom Factory Integration might require additional processing time.

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¹Subject to applicable law and regulations.



Order: **Q25-011F3-160113(C)**

This order is valid only for direct sales made by OriginLab Corporation

OriginLab Corporation
One Roundhouse Plaza
Northampton, MA 01060

Your Sales Representative:

Bob Sullivan

Email: edusales@originlab.com

Phone: 413-5862013 X125

Fax: 413-586-0176

Dr. Ruel Desamero
Department Chair, Chemistry
York College
94 - 20 Guy R. Brewer Blvd
Jamaica NY 11451
Phone: (718)262-2676
Email: jvedad@york.cuny.edu

Date: 06/15/2017

F.O.B. Origin

Order Valid: 45 Days

Instructions:

- Please reference this order number, plan description and the total cost when placing your order.
- If you wish to pay by a Purchase Order (PO), please ask your Sales Representative if your company is on payment terms with OriginLab. If not, you will be given a Credit References form to fill out and send back before your PO can be fulfilled.
- Fax your purchase order to: 413-585-0126; to order by credit card, please call us at: 800-969-7720 press 2.

OriginPro 2017 Perpetual Network Research Lab License

Quantity	Description	List Price	Total Price (US \$)
1	24-Seat OriginPro 2017 Perpetual Network Academic License Includes First year of Maintenance*	\$27,600.00	\$27,600.00
	Volume discount (30%)		-\$8,280.00
	Manager special discount (48.5%)		-\$9,370.20
	Shipping and Handling fee (UPS Ground)		\$15.00
Total	<i>(Not including any other applicable taxes)</i>		\$9,964.80

***Annual Maintenance:**

Maintenance Benefits	<ul style="list-style-type: none"> • Free Software Upgrades • Free Personal Technical Support • Discounts on OriginLab Certified Trainings and Consulting
Renewal	<ul style="list-style-type: none"> • Customer will be contacted sixty (60) days prior to the maintenance expiration date. • Maintenance for the following year will cost 20% of the current license list price if renewed prior to the expiration date of the plan. This does not include any expiring licenses.

Billing and Shipping:

Pricing	Any special pricing on this order is a one-time offer.
Payments in US dollars	Payment will be due prior to delivery of service and/or goods unless OriginLab Corporation has authorized payment terms of net thirty (30) days from date of invoice.
Shipments	All taxes and tariffs are additional and the responsibility of the customer.
Federal Tax ID	OriginLab Corporation has Federal Tax ID #04-3165185

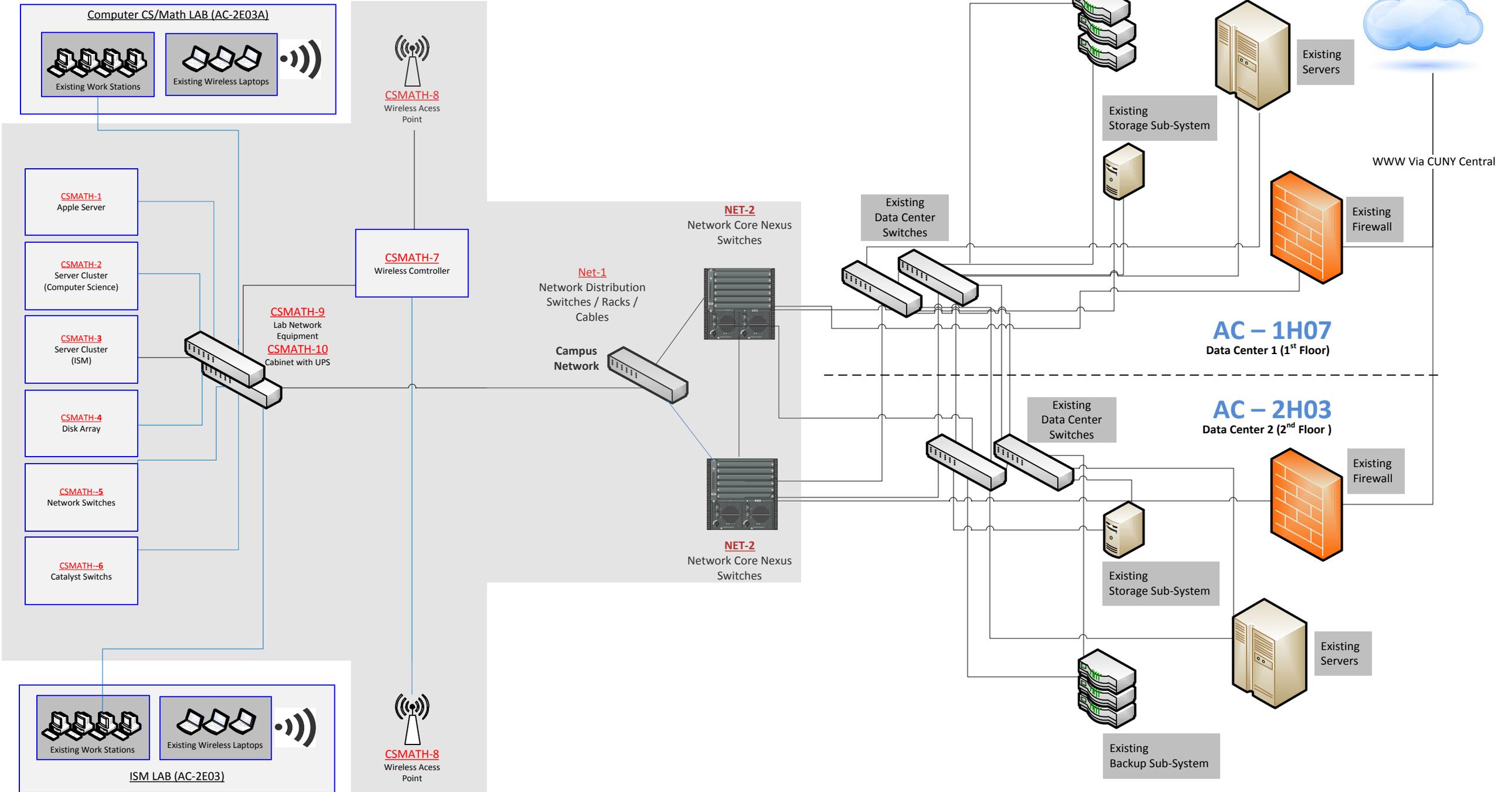
Available License Types for Origin or OriginPro software:	
Node-locked License (Also known as "Fixed Seat")	Each computer running the software requires a computer-specific license which will enable the software to run on that computer. The license is obtained from the OriginLab website using a licensing "wizard" provided when you run the software (an offline option is provided). Once the license is obtained, it is saved to the computer with no further internet access required. Licenses can also be deactivated to prepare for computer replacement.
Concurrent Network License (Also known as "Floating Seat")	The software can be installed on any number of networked computers in your organization at a single site. The number of computers that can run the software at the same time is determined at the time of license purchase and is controlled by a FLEXnet license manager that you set up on one of your workstations or servers on your network. A borrowing option is provided to run the software on mobile computers while traveling. Furthermore, you can set up the license manager to limit the software use, such as you can reserve a number of licenses for a user or group of users.

Computer Science / Math / ISM Lab

High Level Drawing and Quotes

Proposed Architecture

Computer Science/Math/ISM Lab (AC-2E03)





Price Estimate

OGS State Contract number PM20800

Daniel Charles II
Cisco Systems, Inc.

Price Estimate for planning and information purposes only and is not a binding offer from Cisco.

Date: 25-Aug-2017

Estimate ID: SX74495200CR

Deal ID: NA

All prices are shown in USD

Part Number	Description	Service Duration (Months)	Lead Time	Unit List Price	Qty	Unit Net Price	Disc (%)	Extended Net Price
WS-C3650-24TS-S	Cisco Catalyst 3650 24 Port Data 4x1G Uplink IP Base	---	14	4,300.00	3	2,924.00	32.00	8,772.00
S3650UK9-36E	CAT3650 Universal k9 image	---	14	0.00	3	0.00	32.00	0.00
PWR-C2-250WAC	250W AC Config 2 Power Supply	---	14	0.00	3	0.00	32.00	0.00
CAB-TA-NA	North America AC Type A Power Cable	---	14	0.00	3	0.00	32.00	0.00
STACK-T2-BLANK	Type 2 Stacking Blank	---	14	0.00	3	0.00	32.00	0.00
PWR-C2-BLANK	Config 2 Power Supply Blank	---	14	0.00	3	0.00	32.00	0.00
AIR-CT2504-5-K9	2504 Wireless Controller with 5 AP Licenses	---	21	1,295.00	1	880.60	32.00	880.60
LIC-CT2504-BASE	Base Software License	---	14	0.00	1	0.00	32.00	0.00
LIC-CT2504-5	5 AP License for 2504 WLAN Controller	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-CCBL	2504 Wireless Controller Console Cable	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-K9	2504 Wireless Controller with 0 AP Licenses	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-SW-8.0	Cisco 2504 Wireless Controller SW Rel. 8.0	---	14	0.00	1	0.00	32.00	0.00
CAB-AC2	AC Power cord North America	---	14	0.00	1	0.00	32.00	0.00
LIC-CT25-DTLS-K9	2504 Wireless Controller DTLS License	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-HA-K9	2504 Wireless Controller for High Availability	---	21	1,200.00	1	816.00	32.00	816.00
LIC-CT2504-BASE	Base Software License	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-CCBL	2504 Wireless Controller Console Cable	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-K9	2504 Wireless Controller with 0 AP Licenses	---	14	0.00	1	0.00	32.00	0.00
AIR-CT2504-SW-7.6	2504 Wireless Controller SW Rel. 7.6 with WLAN Express Setup	---	14	0.00	1	0.00	32.00	0.00
CAB-AC2	AC Power cord North America	---	14	0.00	1	0.00	32.00	0.00
LIC-CT25-DTLS-K9	2504 Wireless Controller DTLS License	---	14	0.00	1	0.00	32.00	0.00
AIR-CAP1702I-B-K9	802.11ac CAP; 3x3:2SS; Int Ant; B Reg Domain	---	14	695.00	5	472.60	32.00	2,363.00
AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	---	14	0.00	5	0.00	32.00	0.00
AIR-AP-BRACKET-1	802.11n AP Low Profile Mounting Bracket (Default)	---	14	0.00	5	0.00	32.00	0.00
SWAP1700-CMB-A1-K9	Cisco 1700 Series Combined Unified and Autonomous (xxxxx) SW	---	14	0.00	5	0.00	32.00	0.00
S3G5K9W7-15303JD	Cisco 1700 Series IOS WIRELESS LAN	---	14	0.00	5	0.00	32.00	0.00
SWAP1700-RCOVERY-K9	Cisco 1700 Series IOS WIRELESS LAN RECOVERY	---	14	0.00	5	0.00	32.00	0.00
ISR4331-SEC/K9	Cisco ISR 4331 Sec bundle w/SEC license	---	14	4,500.00	10	3,060.00	32.00	30,600.00
SL-4330-IPB-K9	IP Base License for Cisco ISR 4330 Series	---	14	0.00	10	0.00	32.00	0.00
PWR-4330-AC	AC Power Supply for Cisco ISR 4330	---	14	0.00	10	0.00	32.00	0.00
CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	---	14	0.00	10	0.00	32.00	0.00
SL-4330-SEC-K9	Security License for Cisco ISR 4330 Series	---	14	0.00	10	0.00	32.00	0.00
MEM-FLSH-4G	4G Flash Memory for Cisco ISR 4300 (Soldered on motherboard)	---	14	0.00	10	0.00	32.00	0.00
MEM-4300-4G	4G DRAM (2G+2G) for Cisco ISR 4330, 4350	---	14	0.00	10	0.00	32.00	0.00
NIM-BLANK	Blank faceplate for NIM slot on Cisco ISR 4400	---	14	0.00	20	0.00	32.00	0.00
SM-S-BLANK	Removable faceplate for SM slot on Cisco 2900,3900,4400 ISR	---	21	0.00	10	0.00	32.00	0.00
SISR4300UK9-316S	Cisco ISR 4300 Series IOS XE Universal	---	14	0.00	10	0.00	32.00	0.00
WS-C3850-48F-S	Cisco Catalyst 3850 48 Port Full PoE IP Base	---	14	14,000.00	2	9,520.00	32.00	19,040.00
S3850UK9-36E	CAT3850 Universal k9 image	---	14	0.00	2	0.00	32.00	0.00
CAB-TA-NA	North America AC Type A Power Cable	---	14	0.00	2	0.00	32.00	0.00
PWR-C1-BLANK	Config 1 Power Supply Blank	---	14	0.00	2	0.00	32.00	0.00
PWR-C1-1100WAC	1100W AC Config 1 Power Supply	---	14	0.00	2	0.00	32.00	0.00

C3850-NM-BLANK	Cisco Catalyst 3850 Network Module Blank	---	14	0.00	2	0.00	32.00	0.00
----------------	--	-----	----	------	---	------	-------	------

Valid through:

FOB Point: None

Product Total 62,471.60

Service Total : 0.00

Total Price: **62,471.60**

Notes

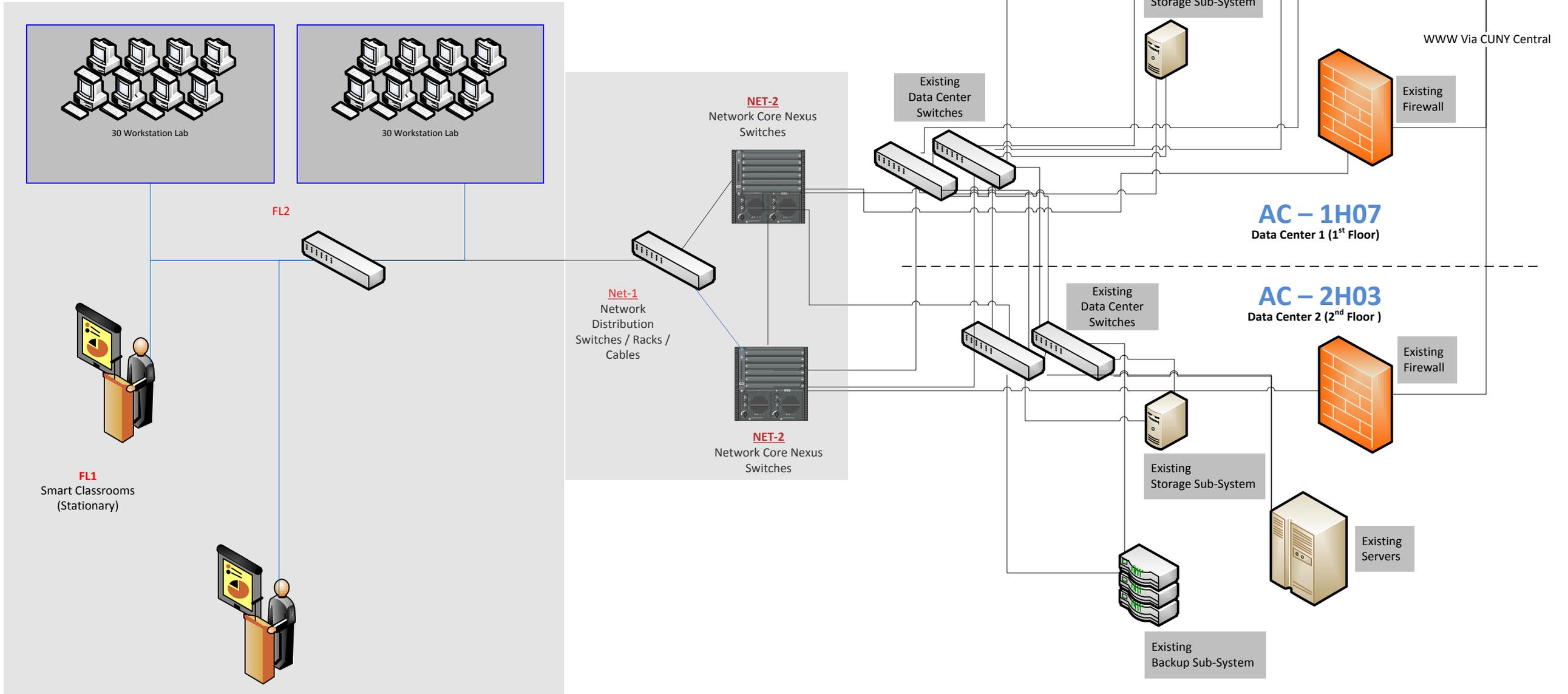
This Price Estimate does not constitute an offer by Cisco to sell products, but is instead an invitation to issue a purchase order to Cisco until the valid date specified in this Price Estimate. Such a purchase order will be subject to Cisco standard procedures, terms and conditions for the acceptance of purchase orders. This order may subject to sales tax, VAT, duty and freight charges even if not noted on this estimate.

Language

High Level Drawing and Quotes

Proposed Architecture

Foreign Language (AC- 3D05, AC-3D04)





A quote for your consideration!

Total:\$3,199.10

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

Quote number:
3000015455702.1

Quote date:
Jul. 11, 2017

Quote expiration:
Aug. 10, 2017

Company name:
YORK COLLEGE-CUNY

Customer number:
1498754

Phone:
(718) 262-5213

Sales rep information:
Terri Lehenbauer
Terri_Lehenbauer@Dell.com
(800) 456-3355
Ext: 5139266

Bill to:
YORK COLLEGE-CUNY
ACCOUNTS PAYABLE RM1H12
94-20 GUY R BREWER BLVD
JAMAICA
NY 11433-0001
US
(718) 262-5213

Pricing Summary

Item	Qty	Unit price	Subtotal
OptiPlex 7450 AIO	2	\$1,599.55	\$3,199.10
DBC as low as \$96.00 / month^			
			Subtotal: \$3,199.10
			Shipping: \$0.00
			Environmental Fees: \$0.00
			Non-Taxable Amount: \$3,199.10
			Taxable Amount: \$0.00
			Estimated Tax: \$0.00
			Total: \$3,199.10

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.

Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.

Regards,

Terri Lehenbauer

Order this quote easily online through your [Premier page](#),
or if you do not have Premier, using [Quote to Order](#)

Shipping Group 1

Shipping Contact: ACCOUNTS PAYABLE	Shipping phone: (718) 262-2739	Shipping via: Standard Ground	Shipping Address: 94-20 GUY R BREWER BLVD DEAN-STUDENT SVCES JAMAICA NY 11451-0001 US
--	--	---	---

SKU	Description	Qty	Unit Price	Subtotal
	OptiPlex 7450 AIO	2	\$1,599.55	\$3,199.10
	Estimated Delivery Date: Jul. 21 - Jul. 25, 2017			
	Contract Code: 83AHG			
	Customer Agreement No: PM20820 AggBuy16-'17			
338-BKXX	Intel Core i7-7700 (QC/8MB/8T/3.6GHz/65W); supports Windows 10/Linux	2	-	-
619-AHKN	Win 10 Pro 64 English, French, Spanish	2	-	-
630-AAPK	No Productivity Software	2	-	-
370-ADJH	16GB (2x8GB) 2400MHz DDR4	2	-	-
400-ANPQ	256GB 2.5inch SATA Class 20 Solid State Drive	2	-	-
490-BBFG	Intel Integrated Graphics, Dell OptiPlex	2	-	-
429-AAZF	8x Slimline DVD+/-RW Drive	2	-	-
658-BBTV	Cyberlink Media Suite Essentials for Windows 10 and DVD drive (without Media)	2	-	-
620-AALW	OS-Windows Media Not Included	2	-	-
575-BBHR	Height Adjustable Stand for OptiPlex 7440/7450	2	-	-
580-ADJC	Dell KB216 Wired Multi-Media Keyboard English Black	2	-	-
275-BBBW	Dell MS116 Wired Mouse, Black	2	-	-
634-BENZ	No DDP ESS Software	2	-	-
954-3465	No DDPE Encryption Software	2	-	-

817-BBBB	No FGA	2	-	-
210-AKMX	BASE,AIO,OPTI,7450,CTO,WW	2	-	-
555-BDGO	Intel Dual Band Wireless AC 8265 (802.11ac) 2x2 + Bluetooth	2	-	-
329-BDHW	7450 AIO 23.8, FHD Touch with Camera, Integrated Graphics, Bronze PSU	2	-	-
332-1286	US Order	2	-	-
340-ABJI	No Diagnostic/Recovery CD media	2	-	-
340-BJWF	MOD,PLCMT,QSG,W10,7450,DAO	2	-	-
409-BBCF	No Intel Rapid Start or Smart Connect	2	-	-
422-0008	Dell Data Protection System Tools Digital Delivery/DT	2	-	-
525-BBCL	SupportAssist	2	-	-
640-BBLW	Dell(TM) Digital Delivery Cirrus Client	2	-	-
658-BBMR	Dell Client System Update (Updates latest Dell Recommended BIOS, Drivers, Firmware and Apps)	2	-	-
658-BBRB	Waves Maxx Audio	2	-	-
658-BCUV	Dell Developed Recovery Environment	2	-	-
555-BDIO	Intel Dual Band Wireless 8265 (802.11ac) Driver	2	-	-
450-AAOJ	System Power Cord (Philippine/TH/US)	2	-	-
329-BBJL	TPM Enabled	2	-	-
387-BBLW	E-Star 6.1 & TCO 5.0 Driver, Service Install Module	2	-	-
389-BCGW	No UPC Label	2	-	-
389-BRFZ	MOD,LBL,REG,JSD2,NON-GS,7450	2	-	-
340-AGIK	Safety/Environment and Regulatory Guide (English/French Multi-language)	2	-	-
340-BJWH	MOD,SHP MTL,TAR,AIO23.8,DAO	2	-	-
389-BBUU	Shipping Label for DAO	2	-	-
401-AADF	No Additional Hard Drive	2	-	-
389-BHGE	Intel Core i7 Processor Label	2	-	-
631-ABEU	No Out-of-Bands Systems Management	2	-	-
817-BBBN	NO RAID	2	-	-
800-BBIO	Desktop BTO Standard shipment	2	-	-
391-BDHK	Dell Touch Liquid Crystal Display, Dell OptiPlex 7450AIO	2	-	-
461-AABV	No Accessories	2	-	-
997-6870	Dell Limited Hardware Warranty Plus Service	2	-	-
997-6942	ProSupport Plus: Accidental Damage Service, 5 Years	2	-	-
997-6952	ProSupport Plus: Keep Your Hard Drive, 5 Years	2	-	-
997-6962	ProSupport Plus: Next Business Day Onsite 5 Years	2	-	-
997-6982	ProSupport Plus: 7x24 Technical Support, 5 Years	2	-	-

Subtotal:	\$3,199.10
Shipping:	\$0.00
Environmental Fees:	\$0.00
Estimated Tax:	\$0.00
Total:	\$3,199.10

Important Notes

Terms of Sale

This quote is valid for 30 days unless otherwise stated. Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hard copy from Dell at your request:

If this purchase is for your internal use only: Dell's Commercial Terms of Sale (www.dell.com/CTS), which incorporate Dell's U.S Return Policy(www.dell.com/returnpolicy) and Warranty (www.dell.com/warrantyterms).

If this purchase is intended for resale: Dell's Reseller Terms of Sale (www.dell.com/resellerterms).

If this purchase includes services: in addition to the foregoing applicable terms, Dell's service contracts and related service terms (www.dell.com/servicecontracts/global).

If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - A Version. (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - S Version (www.dell.com/SEULA) (the "End User License Agreements").

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the foregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

Pricing, Taxes, and Additional Information

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.** Note: All tax quoted above is an estimate; final taxes will be listed on the invoice. If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.

For certain products shipped to end-users in California, a [State Environmental Fee](#) will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.

Dell Business Credit (DBC):

OFFER VARIES BY CREDITWORTHINESS AS DETERMINED BY LENDER. Offered by WebBank to Small and Medium Business customers with approved credit. Taxes, shipping and other charges are extra and vary. Minimum monthly payments are the greater of \$15 or 3% of account balance. Dell Business Credit is not offered to government or public entities, or business entities located and organized outside of the United States.

Dell Financial Services Lease:

1. This proposal is property of Dell Financial Services and contains confidential information. This proposal shall not be duplicated or disclosed in whole or part. Minimum transaction size \$500.
2. All terms are subject to credit approval, execution and return of mutually acceptable lease documentation.
3. Lease rates are based upon the final amount, configuration and specification of the supplied equipment. Interim rent may apply and be due in the first payment cycle.
4. The Lease Quote is exclusive of shipping costs, maintenance fees, filing fees, licensing fees, property or use taxes, insurance premiums and similar items, which shall be for Lessee's account.
5. This proposal is valid through the expiration date shown above, or, if none is specified, for 30 calendar days from date of presentation.

Important Notes

Terms of Sale

Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request: Dell's Terms of Sale (www.dell.com/learn/us/en/uscorp1/terms-of-sale), which include a binding consumer arbitration provision and incorporate Dell's U.S. Return Policy (www.dell.com/returnpolicy) and Warranty (for [Consumer warranties](#); for [Commercial warranties](#)).

If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply ([Consumer](#); [Commercial](#)). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S (www.dell.com/SEULA).

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the foregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

Pricing, Taxes, and Additional Information

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**

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3. Lease rates are based upon the final amount, configuration and specification of the supplied equipment. Interim rent may apply and be due in the first payment cycle.
4. The Lease Quote is exclusive of shipping costs, maintenance fees, filing fees, licensing fees, property or use taxes, insurance premiums and similar items, which shall be for Lessee's account.
5. This proposal is valid through the expiration date shown above, or, if none is specified, for 30 calendar days from date of presentation.



The Professional's Source
800.606.6969/212.444.6615



#6266654058

MY CART

Select All

Remove

Move to List

Quantity

Price

<ul style="list-style-type: none"> <input type="checkbox"/> <input type="checkbox"/> 	<p>Speco Technologies NEXUS UL Contractor Series 6.5" 70V Commercial Metal Back Can Speaker</p> <p>B&H #SPSP6NXCTUL • MFR #SP6NXCTUL Update</p> <p>Shipping Charges Apply</p> <p>Square Trade Protection plan:</p> <p>2 Years Protection plan \$10.49</p> <p>3 Years Protection plan \$14.99</p> <p>Compare all options</p>	<p>4</p> <p>\$126.34 x</p>
		<p>Item Total: \$505.36</p>

<ul style="list-style-type: none"> <input type="checkbox"/> <input type="checkbox"/> 	<p>Microsoft LifeCam Studio</p> <p>B&H #MILCSPL2 • MFR #Q2F-00013</p> <p>Shipping Discount</p> <p>Update</p> <p>Square Trade Protection plan:</p> <p>2 Years Protection plan \$5.24</p> <p>3 Years Protection plan \$7.49</p> <p>Compare all options</p>	<p>2</p> <p>\$68.86 x</p>
		<p>Item Total: \$137.72</p>

-  **Epson ELPAP07 Wireless LAN Module for Select Projectors**
B&H #EPWLMPL1760 • MFR #V12H418P12 2 **\$77.04** **x**
Free Shipping (USA) [Update](#)

Item Total: \$154.08

-  **Peerless-AV PPC Universal Ceiling Projector Mount with Adjustable Extension for ...**
B&H #PEPPCW • MFR #PPC-W 2 **\$71.61** **x**
Shipping Charges Apply [Update](#)

Item Total: \$143.22

-  **Epson ELPLP87 Replacement Lamp for Select Projectors**
B&H #EPL520 • MFR #V13H010L87 2 **\$47.85** **x**
Shipping Charges Apply [Update](#)

Item Total: \$95.70

-  **Epson BrightLink 536Wi Interactive WXGA 3LCD Projector**
- B&H #EPBL536WI • MFR #V11H670022

2 **\$1,398.57** X

[Update](#)

Shipping Charges Apply

Square Trade **Protection plan:**

- 3 Years Drops & Spills
- [Compare all options](#)

2 **\$202.49**

[Update](#)

Item Total: \$3,202.12

-  **Comprehensive HDMI Pigtail Wallplate (Single-Port)**
- B&H #COWPHM1PT • MFR #WP-HM1PT

2 **\$11.99** X

[Update](#)

Free Shipping (USA)

Item Total: \$23.98

-  **Tera Grand DisplayPort Male to HDMI Male Cable (15')**
- B&H #TEDPDPHDMI15 • MFR #DP-DPHDMI-15

2 **\$14.21** X

[Update](#)

Shipping Charges Apply

Item Total: \$28.42

-
-
- Tera Grand DisplayPort Male to HDMI Male Cable (6')**
- B&H #TEDPDPHDMI06 • MFR #DP-DPHDMI-06
- 2 **\$11.19** **x**
- Shipping Charges Apply
- [Update](#)

- Item Total: \$22.38**

-
-
- FSR DSKB-2G 2-Gang Desktop Mounting Box**
- B&H #FSDSKB2G • MFR #DSKB-2G
- 4 **\$69.17** **x**
- Shipping Charges Apply
- [Update](#)

- Item Total: \$276.68**

-
-
- C2G HDMI, VGA, 3.5mm Audio and USB Pass Through Single Gang Wall Plate ...**
- B&H #CA39707 • MFR #39707
- 4 **\$41.11** **x**
- Free Shipping (USA)**
- [Update](#)

- Item Total: \$164.44**

-  **Comprehensive HDMI Pigtail Wallplate (Dual-Port)**
- B&H #COWPHM2PT • MFR #WP-HM2PT 2 **\$14.99** **x**

Free Shipping (USA) [Update](#)

Item Total: \$29.98

-  **Kramer 3.5mm Male to 3.5mm Male Stereo Audio Cable (25')**
- B&H #KRA35MA35M25 • MFR #C-A35M/A35M-25 2 **\$4.20** **x**

Shipping Charges Apply [Update](#)

Item Total: \$8.40

-  **Comprehensive Stereo Mini (3.5mm) Male to Stereo Mini Female Cable (6')**
- B&H #COCSMMSMF6 • MFR #MPS-MJS-6ST 2 **\$3.59** **x**

Shipping Charges Apply [Update](#)

Item Total: \$7.18

-
- 

Comprehensive 10' Stereo 3.5mm Male to Dual RCA Male Y-Cable

B&H #COMPS2PP10ST • MFR #MPS-2PP-10ST

2 **\$4.66** X

Update

Shipping Charges Apply

Item Total: \$9.32

-
- 

Epson ELPSP10 PixiePlus Control System

B&H #EPELPSP10 • MFR #ELPSP10

2 **\$234.36** X

Update

Shipping Charges Apply

Square Trade **Protection plan:**

2 Years Protection plan **\$16.50**

3 Years Protection plan **\$25.50**

[Compare all options](#)

Item Total: \$468.72

-
- 

StarTech 3.5mm Combo Jack Splitter

B&H #STMUYHSMFF • MFR #MUYHSMFF

2 **\$4.93** X

Update

Shipping Charges Apply

Item Total: \$9.86

-
- 

Pyle Pro PTA4 Mini 2 x 120 Watt Stereo Power Amplifier w/ AUX/CD Input

B&H #PYPTA4 • MFR #PTA4

2 **\$50.91** X

[Update](#)

Free Shipping (USA)

Square Trade **Protection plan:**

2 Years Drops & Spills **\$9.75**

3 Years Drops & Spills **\$12.00**

[Compare all options](#)

Item Total: \$101.82

-
- 

NTW 26AWG High Speed HDMI Cable With Ethernet (50')

B&H #NTHSHDMI2650 • MFR #NHDMI4-050/26CL2

4 **\$28.32** X

[Update](#)

Free Shipping (USA)

Item Total: \$113.28

-
- 

Comprehensive Pro AV/IT High-Speed HDMI Cable with ProGrip Connectors (Jet Black, ...)

B&H #COHD20FTPBLK • MFR #HD-HD-20PROBLK

4 **\$30.38** X

[Update](#)

Shipping Discount

Item Total: \$121.52

- 
Xcellon HDMI to VGA Adapter with Audio
- B&H #XCHDMIVGAA • MFR #HDMI-VGAA 2 **\$16.46** x
- Shipping Charges Apply [Update](#)

Square Trade **Protection plan:**

- 2 Years Protection plan **\$2.99**
- 3 Years Protection plan **\$3.74**

[Compare all options](#)

Item Total: \$32.92

Shipping

Store Pickup

NYC SuperStore

SubTotal: \$5,657.10

Shipping: Choose Above

You Saved: \$665.14



Sales: 800.606.6969 or 212.444.6615

Customer Service: 800-221-5743 or 212-239-7765

Please note that B&H does not process web orders from Friday evening to Saturday evening.

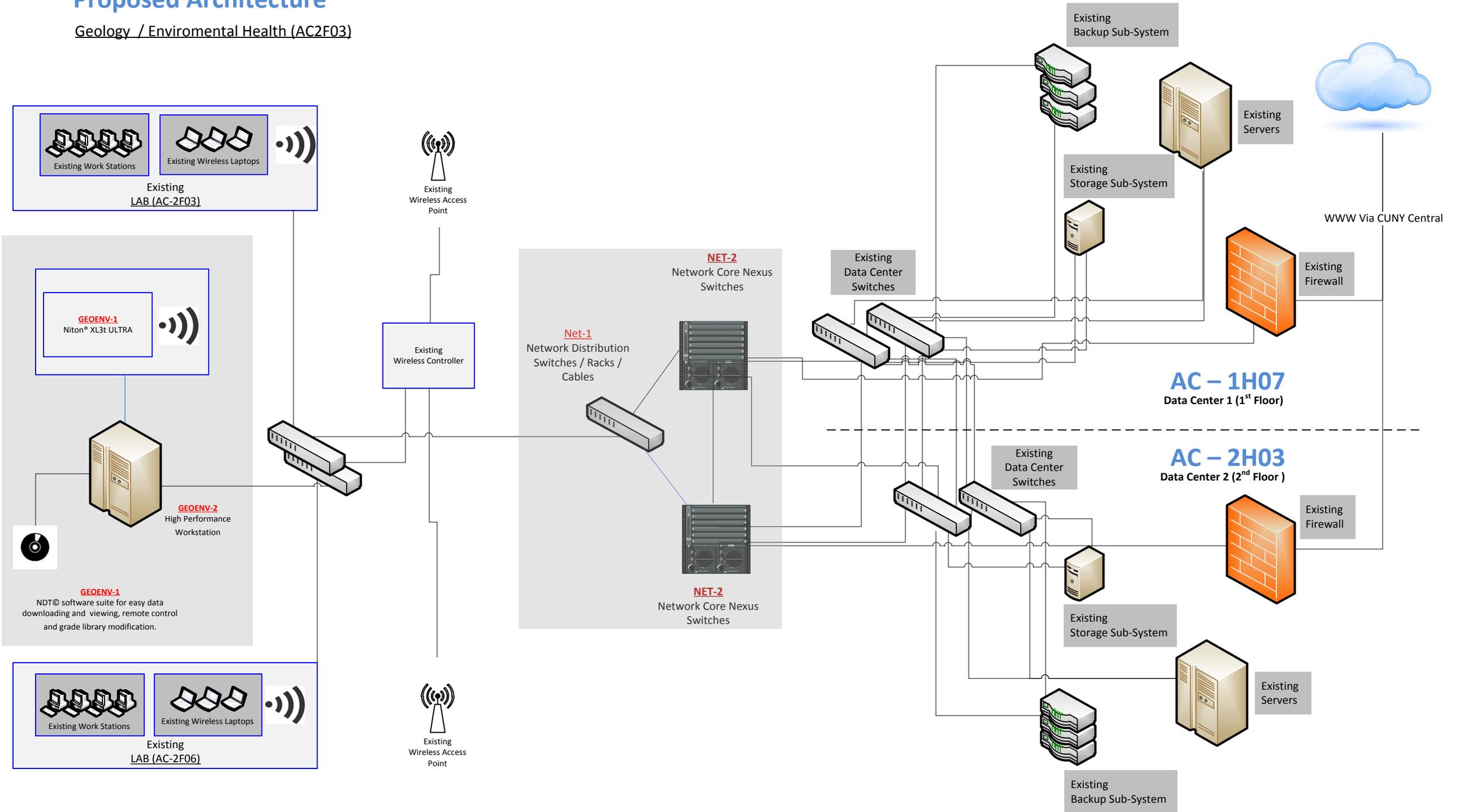
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Geology / Environmental Health

High Level Drawing and Quotes

Proposed Architecture

Geology / Environmental Health (AC2F03)





Savings

\$893.27

Subtotal (2)

\$1,711.00

Price does not reflect applicable shipping, taxes and state environmental fee.

Details	Billing	Shipping	Payment method
geoen-2-workstation Quote number# 1026960033326 Created July 10, 2017 Expires October 8, 2017 Created by stephen@york.cuny.edu	Order contact Stephen Yu, York College Dell Contract Code: 56AHC Customer agreement number: PM20820/1000041162 Phone: (718) 262-2739 Additional:: stephen@york.cuny.edu	Delivery method no charge delivery Trade compliance No, I will not be exporting	

Items	Quantity	Unit Price	Item total
-------	----------	------------	------------

Bundle: OptiPlex 7040 Mini Tower - Great value and in-stock for fast shipping



OptiPlex 7040 Mini Tower - Great value and in-stock for fast shipping

1

\$1,884.28

\$1,884.28

Dell Contract Code: 56AHC
Dell Smart Selection
 July 10, 2017

Premier discount

-\$734.87

Catalog Number: 84 / s024o7040mtusr

Category	Description	Code	SKU	ID
OptiPlex 7040 MT	OptiPlex 7040 Mini Tower BTX	7040TB	[210-AFGH]	1
Memory	16GB (2x8G) 2133MHz DDR4 Memory	16G2D4	[370-ACKD]	3
Keyboard	Dell KB216 Wired Keyboard English Black	US216B	[580-ADJC]	4
Video Card	AMD Radeon™ R7 350X (4GB DP/DVI-I)	R7350F	[490-BCQS]	6
Driver	No Wireless Selected	NOWRLS	[555-BBFO]	7
Hard Drive	M.2 256GB PCIe NVMe Class 40 Solid State Drive	256SDM	[400-AIRY] [412-AAGV] [773-BBBC]	8
Media Card Reader	No Media Card Reader Selected	NMCR	[385-BBCR]	10
Operating System	Windows 10 Pro, 64bit English, French, Spanish	10P64M	[619-AHKN]	11
Mouse	Dell MS116 Wired Mouse Black	MS116B	[275-BBBW]	12
Network Card	No Bcom required	NOBCOM	[555-BBKH]	13
Removable Media Storage Device	8x DVD+/-RW 9.5mm Optical Disk Drive	8XDVRW	[325-BBRL] [429-AAJV]	16
Wireless	No Wireless	NOWRLS	[555-BBFO]	19
Power Cord	System Power Cord (English)	US125V	[450-AAOJ]	20
Documentation/Disks	Safety/Environment and Regulatory Guide (English/French Multi-language)	EFDOC	[340-AGIK]	21
Hardware Support Services	3 Year Hardware Service with Onsite/In-Home Service After Remote Diagnosis	NBD3	[997-6870] [997-6872]	29
Systems Management	Intel vPro Technology Enabled	VPRO	[631-AASO]	49
Diagnostic CD / Diskette	No Diagnostic/Recovery CD media	NORDVD	[340-ABJI]	50
Placemat	Quick Reference Guide, Win 10	PLMTW10	[340-ASOH]	60
Canada Ship Options	US No Canada Ship Charge	USNONE	[332-1286]	111

Category	Description	Code	SKU	ID
Chassis Options	OptiPlex 7040 MT with 240W up to 85% efficient Power Supply (80Plus Bronze)	MTBRNZ	[329-BCSE]	116
E-Star	ENERGY STAR Version 6.0	ESTAR6	[387-BBEZ]	122
Processor	Intel® Core™ i7-6700 Processor (Quad Core, 8MB, 8T, 3.4GHz, 65W)	I76700	[338-BHUH] [412-AAGU]	146
Dell Data Security Encryption	DDPE Personal Edition License + ProSupport for Software 1 Year	PDPE1Y	[421-9984] [954-3455]	156
UPC Label	Print on Demand Label	POD	[389-BDQH]	292
TPM Security	Trusted Platform Module (TPM Enabled)	TPM	[329-BBJL]	297
Packaging	Shipping Material for System, Minitower	SHPDOA0	[340-ARRJ] [389-BBUU]	465
Stands and Mounts	No Integrated Stand option	NOSTND	[575-BBBI]	558
FGA Module	7040MT_1H17_026/US/BTS	FG0024	[998-BZGD]	572
Cables and Dongles	No Adapter	NOADPTR	[470-AAJL]	592
Dell Threat Protection and Endpoint Security Suite	No Dell Data Protection Endpoint Security Suite Software	NODDP	[634-BENZ]	593
Optical Software	Cyberlink Media Suite Essentials without Media for Win10/8.1	W8DVDSW	[658-BBTV]	597
Additional Hard Drive	No Additional Hard Drive	NADDHD	[401-AANH]	637
Label	Reg Label, MT, MEX,EPA	EPAMEX	[389-BHMP]	676
CompuTrace Offerings + Stoptrack Label	No Computrace	NCTRACE	[461-AABF]	697
Serial Port/PS2 Adapter	No Accessories	NOACC	[461-AABV]	698
Hard Drive Software	NO INTEL RESPONSIVE	NOINTR	[551-BBBJ]	707
Processor Branding	Intel Core i7 vPro Label	VICI7	[389-BHJV]	749
Microsoft Application Software	Microsoft Office 30 Day Trial	16MUI	[658-BCSB]	1002
Non-Microsoft Application Software	Windows 10	WIN10	[340-AJFC] [422-0008] [525-BBCL] [640-BBLW] [658-BBMQ] [658-BBMR] [658-BBNH] [658-BCUV]	1003
RAID Connectivity	NO RAID	NORAID	[817-BBBN]	1009
Operating System Media	OS-Windows Media Not Included	NOMEDIA	[620-AALW]	200013
Transportation from ODM to region	BTS/BTP Shipment	BTS	[800-BBIP]	200080
External Speakers	No External Speaker	NOESPK	[817-BBBC]	200095

Grouped with your OptiPlex 7040 Mini Tower - Great value and in-stock for fast shipping



Dell UltraSharp 27 InfinityEdge Monitor - U2717D

1

\$719.99

\$719.99

Dell Contract Code: 56AHC

Premier discount

Catalog Number: 84 / u2717dcc

-\$158.40

Category	Description	Code	SKU	ID
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Dell 27 Monitor U2717D	Dell UltraSharp 27 InifinityEdge Monitor - U2717D	U2717D	[210-AHGV]	1
Hardware Support Services	3 Year Premium Panel Limited Warranty-Advanced Exchange	AE3	[808-1298] [808-1299]	29
Bundle Total:				\$1,711.00

Savings: \$893.27

Subtotal (2): \$1,711.00

Savings \$893.27

Subtotal (2) \$1,711.00

Price does not reflect applicable shipping, taxes and state environmental fee.

Same day shipment subject to order size limitations, Dell standard shipping methods and payment via credit card, gift card or Dell Business Credit. Notification will be provided if there are payment delays which could impact shipping date. Electronics and accessories may ship separately.

Smart Selection. Limited quantities. Only available for orders placed by 5:59 p.m. CT Mon.–Thurs. Systems shipped the next business day after an order is placed. Subject to order approval. Software and accessories not part of the configuration will be shipped separately and may arrive after your system. Please note that Smart Selection Configuration pricing cannot be combined with other pricing offers or discounts provided or agreed to by Dell. ** Orders with Custom Factory Integration might require additional processing time.

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¹Subject to applicable law and regulations.

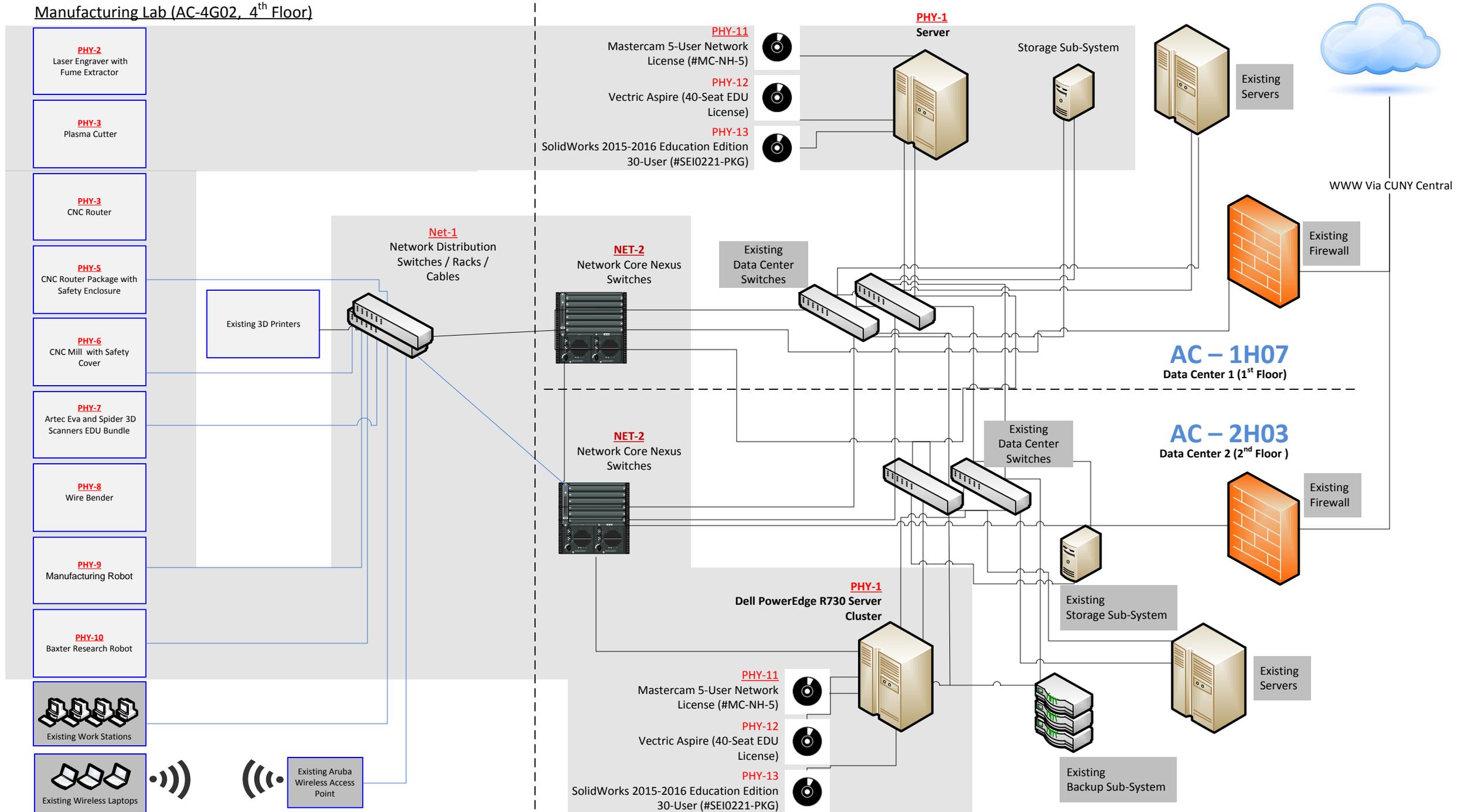
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Digital Design and Production
Manufacturing Lab

High Level Drawing and Quotes

Proposed Architecture

Digital Design and Production
Manufacturing Lab (AC-4G02, 4th Floor)





YORK COLLEGE CUNY
EPILOG FUSIONM2-32 50-WATT LASER ENGRAVER

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
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Epilog FusionM2-32 50-Watt Laser Engraver (NYS Contract #PC65608):

#FUSIONM2-32-50	Epilog Fusion M2 32" x 20" 50-Watt Laser Engraver <i>Includes servo motors, auto focus, air assist, red dot pointer, lens, Radianc high definition optics, integrated floor stand, Ethernet and USB interface, 2-year onsite parts and labor warranty.</i>	1	\$26,959.21	\$26,959.21
	Fusion32 Vector Grid	2	634.38	1,268.76
	Fusion Rotary Attachment	1	1,677.13	1,677.13
	Air Assist Pump <i>Used in place of a compressed air source.</i>	1	342.41	342.41

Fume Extractor and Machine Setup/Training:

#L0761-0003	BOFA Advantage 1000 IQ Fume Extractor <i>Can be vented into the room when using approved materials. Includes one set of filters.</i>	1	6,107.00	6,107.00
#SBHK-2524	Standard Double Hose Connection Kit to 4" Port	1	252.00	252.00
	Freight for BOFA Unit	1	500.00	500.00

Totals:

Epilog FusionM2-32 50-Watt Laser Engraver (NYS Contract #PC65608).....	\$30,247.51
Fume Extractor and Machine Setup/Training.....	\$6,859.00
GRAND TOTAL.....	\$37,106.51

* Proposal total is F.O.B. destination.

** Proposal is valid for 60 days.

Ref. #C17-1144A2 - 06/29/2017

Customer to provide the following:

- An Ethernet network connection (with static IP address) or a Windows based PC with 4GB RAM, a free USB port and graphics software (i.e. CorelDraw, Adobe Illustrator, etc.). If the laser is networked then separate Windows based PC/s with 4GB RAM and graphics software are required. Note: to use the new ECC software you must have a PC connected to the system via USB.**
- The 50-Watt laser engraver requires 115vac power on a dedicated 20amp circuit. The air assist pump requires 115vac 5amp power. The BOFA unit requires 115vac 19.5amp power on a separate circuit.**
- This is a large machine. Double-door access to building/rooms may be required. Overall dimensions: 52.5" w x 35" d x 40.75" h. Machine weight: 500 lbs.**

Consumable Items - Replacement Filters for BOFA AD 1000 IQ (less freight):

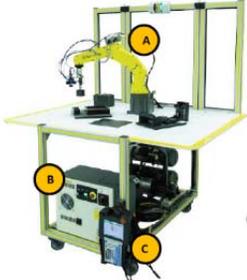
#A1030222	Replacement Deep Pleat Pre-Filter for L0661A	1	\$455.00	\$455.00
#A1030297	Replacement Combined Filter for L0661A	1	891.00	891.00



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YORK COLLEGE CUNY FANUC 200iD/4S R-30iB TRAINING CERT PACKAGE (FENCELESS)

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
<u>200iD/4S R-30iB Education Training CERT Package (Fenceless):</u>				
#LRMATE-A/B-FL	 <p>LR Mate 200iD/4S Robot with R-30iB Mate Controller and MH3 FENCELESS Education Training Cart to include:</p> <p><u>(1) LR Mate 200iD/4S Robot with R-30iB Mate Controller to include:</u></p> <ul style="list-style-type: none"> - 6 Axis Mechanical Robot - R-30iB Mate Controller - LR Handling Tool Software – CERT Configuration with DCS, Collision Guard and 4D Graphics - MH iPendant with Touch Screen – R-30iB Mate <p><u>(1) MH3 FENCELESS Education Training Cart to include:</u></p> <ul style="list-style-type: none"> - DCS/AB SafeZone Scanner – Collaborative Open CERT Cart - 180+ Degree Work Envelope - Enhanced Gripper with Embedded Laser Pointer - Allen Bradley – SafeZone Safety Laser Scanner - Allen Bradley – Auditable Safety Stack Light - 4.6 Gal. Ultra Quiet Air Compressor 	1	\$39,900.00	\$39,900.00
#LRMATE-C	<p>Instructor MH CERT Program/Software Package and Student MH Software Package (Single Instructor) to include:</p> <p><u>Instructor MH CERT Program and Software Package to include:</u></p> <ul style="list-style-type: none"> - Free Annual Instructor Software Subscription Renewal (when instructor certification is completed – instructor is given 1-year to complete the program) - MH Certification and MH CERT Training Program - ROBOGUIDE Simulation Software - MH eLearn Web Courses <p><u>Student MH Software Package to include:</u></p> <ul style="list-style-type: none"> - 12-Month Subscription Per Student (Renewals available for purchase to schools with a certified instructor) - Qty. (25) ROBOGUIDE Simulation Software - Qty. (25) MH eLearn Web Curriculum 	1	(No Charge with First CERT Cart Purchase)	(No Charge with First CERT Cart Purchase)
	<p>Instructor Manual Bundle to include:</p> <ul style="list-style-type: none"> - (1) FANUC Robot Operations - (1) FANUC HandlingPro (Roboguide Simulation) - (1) FANUC HandlingTool Operations & Programming 	1	(No Charge with First CERT Cart Purchase)	(No Charge with First CERT Cart Purchase)
	<p>iRvision 2D Guidance Hardware (Carried) and Software</p> <p><i>Requires iRvision Instructor CERT Program and EOAT Adaptor.</i></p>	1	4,000.00	4,000.00
	<p>Fenceless Multi-EOAT Adaptor Kit</p> <ul style="list-style-type: none"> - Allows mounting of pneumatic gripper, vacuum gripper, 2D iRvision camera and ring light. - Includes EOAT extension, mounting brackets, mounting hardware, cables and tubing. 	1	800.00	800.00
	<p>Vision Light Kit – LR Mate Robot (Carried for Fenceless Cart)</p> <p><i>Requires EOAT adaptor.</i></p>	1	680.00	680.00
	<p>2D iRvision Instructor CERT Program (Single Instructor) to include:</p> <ul style="list-style-type: none"> - iRvision Setup and Operations-2D eLearn Web Curriculum 	1	3,500.00	3,500.00



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YORK COLLEGE CUNY
FANUC 200iD/4S R-30iB TRAINING CERT PACKAGE
(FENCELESS)

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
	Project Based Learning – Battery Package with Basic iRVision 2D and Error Proofing to include: <ul style="list-style-type: none"> - Gripper Fingers for LR Mate (standard M1 gripper will work) - Machined “AA” Battery Magazine - (8) AA Batteries - Machined Loading Trays with iRVision target for teaching vertical, horizontal, and diagonal load / unload programming - (1) FANUC iRVision 2D Manual - Includes a demo program when purchased with a CERT cart <i>Requires iRVision 2D Guidance Hardware/Software and iRVision Instructor CERT Program.</i>	1	\$4,100.00	\$4,100.00
GRAND TOTAL.....				\$52,980.00

** Proposal total is F.O.B. destination.*
*** Proposal is valid for 60 days.*

Ref. #C17-1153A2 - 06/29/2017

Customer is to provide a 120vac 20amp grounded outlet for the robot cart and computers.



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YORK COLLEGE CUNY SOLIDWORKS SOFTWARE

Part No	Description	Qty	Unit	Total
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SolidWorks Software:

#SMN1124	SolidWorks 2017-2018 Education Edition, 60-User Network License <i>Includes a 1-year SolidWorks Subscription Service. Subscription service includes access to the customer portal and 60-Student Engineering Kit licenses.</i>	1	\$3,600.00	\$3,600.00
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TOTAL				\$3,600.00
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- * Proposal total is F.O.B. destination.*
- ** Proposal is valid for 60 days.*
- *** Installation and training not included.*

Ref. #C17-1154A - 06/21/2017

Please visit <http://www.solidworks.com/sw/support/SystemRequirements.html> to view the latest system requirements.



**YORK COLLEGE CUNY
MASTERCAM SOFTWARE**

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.allegHENYedusys.com

Part No	Description	Qty	Unit	Total
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Mastercam Software:

#MC-NH-5-MA	Mastercam 2018 Software NetHASP with 5-User Licenses <i>Includes a 5-license network-based USB NetHASP with Mastercam 2018 Mill Level 3, RouterPro, Lathe, Wire, Solids, Multi-Axis, Mastercam for SolidWorks Plug-In and 1-Year of Mastercam Software Maintenance.</i>	1	\$5,780.00	\$5,780.00
#MC-IGC	Mastercam 2018 Instructor Grant Copy	1	250.00	250.00
	Shipping	1	15.00	15.00

GRAND TOTAL.....		\$6,045.00
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- * Proposal total is F.O.B. destination.*
- ** Proposal is valid for 60 days.*
- *** Installation and training not included.*

Ref. #C17-1155A - 06/21/2017

Please visit <http://www.mastercam.com/en-us/Support/System-Requirements> to view the latest system requirements.



**YORK COLLEGE CUNY
VECTRIC ASPIRE SOFTWARE**

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.allegHENYedusys.com

Part No	Description	Qty	Unit	Total
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Vectric Aspire Software:

	Aspire Software License (Up to a 40-Seat EDU Lab License if software is registered to a specific school)	1	\$1,995.00	\$1,995.00
	Shipping	1	15.00	15.00

GRAND TOTAL.....				\$2,010.00
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- * Proposal total is F.O.B. destination.*
- ** Proposal is valid for 60 days.*
- *** Installation and training not included.*

Ref. #C17-1156A - 06/21/2017

Please visit <http://support.vectric.com/aspire-questions/item/minimum-computer-requirements-to-run-software> to view the latest system requirements.

Educational Classroom License Terms:

Educational classroom licenses purchased after May 1st 2012 can be installed on up to 40 computers in one single classroom. The software can also be installed on one teacher's laptop, which may be used outside of the classroom.

The software must not be installed on student's individual or personal laptops.

The license must be registered to an individual school rather than a school district. If you wish an educational classroom license, please let Vectric know the name of the school where the router is installed. An educational classroom license is non-transferable. The software must be registered using an email address belonging to the school or university.



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**YORK COLLEGE CUNY
IMPLEMENTATION SERVICES**

Part No	Description	Qty	Unit	Total
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Implementation Services:

	Implementation Services for the following items - Epilog FusionM2-32 50-Watt Laser Engraver - Roland GS-24 Vinyl Cutter - (2) Epilog FusionM2-40 Laser Engravers - Techno HD-II 48x96 CNC Plasma Cutter - Techno HD 48x96 CNC Router - Techno HD-II Mini CNC Router - Roland MDX-540A CNC Mill - Artec EVA & Space Spider Scanners - DIWire+ Wire Bender - Fanuc LR Mate 200iD/4S CERT Cart - SolidWorks Software - Mastercam Software - Vectric Aspire Software <i>See each individual quote for customer requirements/responsibilities.</i>	1	\$4,000.00	\$4,000.00
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TOTAL				\$4,000.00
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** Proposal is valid for 60 days.*

Ref. #C17-1157A2 - 06/29/2017



AllegHENY
Educational Systems, Inc.

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.allegHENYedusys.com

YORK COLLEGE CUNY MAKER SPACE QUOTES SUMMARY

Part No	Description	Qty	Unit	Total
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Maker Space Quotes Summary:

	Epilog FusionM2-32 50-Watt Laser Engraver (C17-1144A2)	1	\$37,106.51	\$37,106.51
	Roland GS-24 Vinyl Cutter (C17-1145A2)	1	2,615.00	2,615.00
	Epilog FusionM2-40 Laser Engravers (C17-1146A2)	2	50,659.05	101,318.10
	Techno HD-II 48x96 CNC Plasma Cutter (C17-1147A2)	1	35,193.00	35,193.00
	Techno HD 48x96 CNC Router (C17-1148A2)	1	38,745.00	38,745.00
	Techno HD-II Mini CNC Router (C17-1149A2)	1	15,877.00	15,877.00
	Roland MDX-540A CNC Mill (C17-1150A)	1	34,438.90	34,438.90
	Artec EVA and Space Spider 3D Scanners (C17-1151A)	1	28,283.00	28,283.00
	DIWire+ Wire Bender (C17-1152A2)	1	5,455.00	5,455.00
	Fanuc LR Mate 200iD/4S CERT Cart (C17-1153A2)	1	52,980.00	52,980.00
	SolidWorks Software (C17-1154A)	1	3,600.00	3,600.00
	Mastercam Software (C17-1155A)	1	6,045.00	6,045.00
	Vectric Aspire Software (C17-1156A)	1	2,010.00	2,010.00
	Implementation Services (C17-1157A2)	1	4,000.00	4,000.00

TOTAL	\$367,666.51
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** Proposal is valid for 60 days.*

Ref. #C17-1158A2 - 06/29/2017

Please see each individual quote for the customer requirements/responsibilities.



27-43 Wormwood Street, Suite 300
 Boston, Massachusetts 02210
 United States

York College

94-20 Guy R. Brewer Blvd
 Jamaica, New York 11451
 United States

FEIN: 26-2940435
 Duns # 023644066

Date 6/22/2017
 Quote # 201706220058900
 Quote Valid Until 7/22/2017

Sales Contact Tony Bailey
 Phone 617-600-6803
 Email tbailey@rethinkrobotics.com

Name Daniel Phelps
 Phone 7182622917
 Email dphelps@york.cuny.edu

Part #	Product	Description	Quantity	Price	Total Price
59768	Sawyer Robot System	Sawyer Robot including one year hardware warranty and software updates for the life of the robot	1.00	\$34,900.00	\$34,900.00
59769	Sawyer Pedestal	Pedestal designed for standing workplace heights, on casters for movement with leveling feet for stability and controller mounting features	1.00	\$3,500.00	\$3,500.00
31556	Electric Parallel Gripper (EPG) Kit	Electric Parallel Gripper (EPG) Kit. Includes: Parallel Gripper, Fingers- 4 Types, Fingertips, Hex Key for installation, Custom Hard Plastic Carry Case, and a User Guide	1.00	\$1,750.00	\$1,750.00
70024	North America AC Cord	North America AC Cord with IEC Connector C13, V-Lock, 2m	1.00	\$35.00	\$0.00
59770	Adapter Tool Plate	End of Arm Tool (EOAT) mounting plate for attaching Rethink Robotics' grippers (electric or vacuum) to the Sawyer robot. (1 per Sawyer)	1.00	\$0.00	\$0.00
	S&H (est)	Estimated shipping and handling charges	1.00	\$600.00	\$600.00

Total Price \$40,750.00

Notes:

Comments Payment Terms: Net 30 (pending credit approval)
 Shipping Terms: FOB Shipping Point
 Confidentiality: The information in this quote is confidential

- Please Include the quote number on your purchase order.
- If you are sales tax exempt, please provide a valid exemption certificate or else sales tax will be included on your invoice.

RETHINK ROBOTICS, INC. STANDARD TERMS AND CONDITIONS OF SALE

1. **Scope of Agreement; Acceptance.** Notwithstanding any terms set forth in a purchase order, these Terms and Conditions and the terms of the License Agreement accompanying the software ("Software") provided with the Rethink Robotics, Inc. ("Rethink Robotics") robots (the "Robots") and grippers, end effectors, pedestals and other Robot hardware, excluding consumables, (the "Accessories") (collectively referred to as "Products"), are the terms under which Rethink Robotics accepts the purchase order ("Order") from purchaser for the Products listed in the Purchase Order ("Purchaser"). Acceptance of said Order is expressly made conditional on Purchaser's assent, express or implied, to the terms set forth herein, unless otherwise agreed to in a separate written agreement executed by an officer of Rethink Robotics. Prices are exclusive of, and Purchaser agrees to pay, all federal, state, municipal and other governmental excise, sales, use, and similar taxes, duties or tariffs. Any existing nondisclosure agreements between Rethink Robotics and Purchaser shall remain in effect.
2. **Prices and Payment Terms.** All prices and payments shall be in U. S. dollars. Prices are Ex-Works Shipping Point and Purchaser is responsible for all shipping, handling and insurance costs and any fees, taxes, or duties related to the delivery or use of the Products. Subject to Purchaser meeting Rethink Robotics' open account credit criteria, the balance of the purchase price of each shipment of Products is due and payable net 30 days from the date of invoice. Overdue payments will be charged interest at the rate of one percent (1%) per month (12% per annum) or the maximum amount legally chargeable by Rethink Robotics, whichever is less, compounded monthly. If any action or proceeding is brought for collection, Rethink Robotics shall be entitled to reasonable attorneys' fees and other costs incurred.
3. **Title and Security Interest.** Title and risk of loss for the Products (excluding Software which is licensed) shall pass to Purchaser on delivery Ex-Works to a common carrier. Until Purchaser performs all of its obligations under these Terms and Conditions, Rethink Robotics will retain a purchase money security interest in the purchased Product and the proceeds thereof to secure performance of all of such obligations of Purchaser.
4. **Limited Warranty and Exclusive Remedy.** The Rethink Robotics Robots and Accessories, as supplied and distributed by Rethink Robotics and/or its authorized reseller, and delivered new, in the original carton to the original end user customer, are warranted by Rethink Robotics against manufacturing defects in materials and workmanship for one year from the date of delivery to end user customer. Rethink Robotics will repair or replace the defective product, at its option and at no charge with new or reconditioned parts, if found to be defective during the limited warranty period specified above. Rethink Robotics does not warrant uninterrupted or error-free operation of the product. Replacement parts and products assume the remaining original warranty. Rethink Robotics may require the end user customer to upgrade to its latest version of software before providing any warranty service.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal use of the Robots and Accessories and shall not apply to any failure or improper operation of the Robots and Accessories not caused by Rethink Robotics, including, but not limited to: damage which occurs in shipment; applications and uses for which the applicable Robot or Accessory was not intended (harsh use, crushing, submersion or high-pressure water, and so forth); failures or problems that are caused by products or equipment not supplied by Rethink Robotics; accidents, misuse, abuse, neglect, misapplication, fire, lightning or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper installation; product alteration or modification; improper or unauthorized repair; exterior finish or cosmetic damage; product with altered serial numbers; failure to follow operating instructions, end user customer adjustments, and/or maintenance and environmental instructions that are covered and prescribed in the documentation; use of non-Rethink Robotics or unauthorized parts, supplies, accessories or equipment which damage the Robot or Accessory or result in service problems; failures or problems due to incompatibility with other equipment. With the exception of using the torso access panel for air system installation, opening the body of a Robot or Accessory casing voids all warranties unless performed by a certified field service technician or an end user customer technician trained and certified by Rethink Robotics or its authorized reseller. With the exception of the air system in the torso access panel, there are no user-serviceable parts inside the body of any Robot or Accessory.

Items such as the Rethink Robotics filters, vacuum cups, vacuum extenders, fingers, finger tips, and air hoses are considered consumables. The limited warranty for consumables begins on the date of delivery to the end user customer and extends for ninety (90) days. Rethink Robotics will repair or replace these items, at its option and at no charge with new or reconditioned consumables, if the consumables are found to be defective during the limited warranty period specified above. Replacement consumable items assume the remaining original warranty, or ninety (90) days, whichever is shorter.

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RETHINK ROBOTICS' ROBOTS HAVE BEEN DEVELOPED AND TESTED FOR RESEARCH AND MANUFACTURING USES AND SHOULD BE OPERATED IN STATIONARY, LEVEL ENVIRONMENTS (AS DESCRIBED IN THE SPECIFICATIONS AND USER GUIDE). THE END USER CUSTOMER SHOULD PERFORM A RISK ASSESSMENT BEFORE OPERATING THE ROBOT. USE OUTSIDE OF THE ROBOT'S SPECIFICATIONS, INTENDED USE, OR WITH UNMITIGATED HAZARDS MAY INCREASE THE RISK OF INJURY TO THE END USER, DAMAGE TO THE ROBOT, VOID THE WARRANTY, AND LIMIT RETHINK ROBOTICS' ABILITY TO PROVIDE SUPPORT FOR THE PRODUCTS.

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6. Governing Law. This sale of Products shall be construed and governed in accordance with the laws of the Commonwealth of Massachusetts, excluding: (i) its conflicts of laws principles; and (ii) the United Nations Convention on the International Sale of Goods. Any dispute, controversy or claim arising out of this Agreement shall be referred to an arbitration proceeding in Boston, Massachusetts, USA conducted in English under the commercial arbitration rules of the American Arbitration Association ("AAA"), and shall be the exclusive forum for resolving such dispute, controversy or claim. The arbitration shall be conducted in accordance with the provisions set forth in the License Agreement. The prevailing party shall be entitled to recover, in addition to any other relief granted, reasonable attorneys' fees.

Rethink Robotics, Inc. – Standard Terms and Conditions of Sale Rev. 3/18/15



YORK COLLEGE CUNY
ROLAND GS-24 VINYL CUTTER

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
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Roland Vinyl Cutter:

#GS-24	Roland 24" CAMM-1 Desktop Vinyl Cutter with Stand <i>Includes stand, AC adapter, power cord, blade, blade holder, roller base, alignment tool, Roland CutStudio software, USB cable and setup guide.</i>	1	\$1,995.00	\$1,995.00
	Roland Project Based Learning Kit	1	495.00	495.00
	Freight	1	125.00	125.00

GRAND TOTAL.....			\$2,615.00
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** Proposal total is F.O.B. destination.
** Proposal is valid for 60 days.*

Ref. #C17-1145A2 - 06/29/2017

Please visit www.rolanddga.com to view the current system requirements.

Consumable Items:

	Vinyl Cutter Startup Kit <i>Include vinyl sign making startup kit, startup vinyl rolls and spare GS-24 all-purpose cutting blade.</i>	1	\$350.00	\$350.00
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YORK COLLEGE CUNY
EPILOG FUSIONM2-40 75-WATT LASER ENGRAVER

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
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Epilog FusionM2-40 75-Watt Laser Engraver (NYS Contract #PC65608):

#FUSIONM2-40-75	Epilog FusionM2 40" x 28" 75-Watt Laser Engraver <i>Includes servo motors, auto focus, air assist, red dot pointer, lens, Radianc high definition optics, integrated floor stand, Ethernet and USB interface, 2-year onsite parts and labor warranty.</i>	2	\$36,666.00	\$73,332.00
	Fusion40 Vector Grid	2	759.51	1,519.02
	Air Assist Pump <i>Used in place of a compressed air source.</i>	2	342.41	684.82
	Fusion Rotary Attachment	2	1,677.13	3,354.26

Fume Extractor:

#L0862-0003	BOFA Advantage 1500 IQ Fume Extractor <i>Requires the hose connection kit. Includes one set of filters. This unit can be vented into the classroom when using approved materials.</i>	2	10,412.00	20,824.00
#DHK-AD1500IQ-4	Standard Double Hose Connection Kit to 4" Ports	2	252.00	504.00
	Freight for the BOFA	2	550.00	1,100.00

Totals:

Epilog FusionM2-40 75-Watt Laser Engraver (NYS Contract #PC65608).....	\$78,890.10
Fume Extractor	\$22,428.00
GRAND TOTAL.....	\$101,318.10

- * Proposal total is F.O.B. destination.
- ** Proposal is valid for 60 days.
- *** You must show NYS contract #PC65608 on your purchase order.
- **** Setup and training not included. See separate quote.

Ref. #C17-1146A2 - 06/29/2017

Customer to provide the following for each system:

1. An Ethernet network connection (with static IP address) or a Windows based PC with 4GB RAM, a free USB port and graphics software (i.e. CorelDraw, Adobe Illustrator, etc.). If the laser is networked then separate Windows based PC/s with 4GB RAM and graphics software are required. Note: to use the new ECC software you must have a PC connected to the system via USB.
2. The 75-Watt system requires 115vac 20amp power on a dedicated circuit. Epilog highly recommends 220-240vac single-phase 15amp power on a dedicated circuit for optimum performance. The air assist pump requires 115vac 5amp power. The BOFA unit requires 230vac single-phase 25amp power on a separate circuit.
3. **This is a large machine. Double-door building/room access required. Machine size = 60.5" w x 41.25" d x 42.25" h; Machine weight = 643 lbs.**



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YORK COLLEGE CUNY
EPILOG FUSIONM2-40 75-WATT LASER ENGRAVER

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Part No	Description	Qty	Unit	Total
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Consumable Items - BOFA Replacement Filters (less freight):

#A1030222	Replacement Deep Pleat Pre-Filter for L0862	1	\$455.00	\$ 455.00
#A1030297	Replacement Combined Filter for L0862	1	891.00	891.00



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YORK COLLEGE CUNY
TECHNO HD-II 48" x 96" CNC PLASMA CUTTER

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.allegHENYedusys.com

Part No	Description	Qty	Unit	Total
<u>Techno HD-II 48" x 96" CNC Plasma Cutter:</u>				
#HDII-48X96-PLASMA	<u>Techno HD-II 48" x 96" Stepper CNC Plasma Cutter (230v single-phase):</u> - Integrated stand - PC based WinCNC controller - Water table, steel v-grid and down draft - Electronic torch break-away - Automatic digital torch height control - 1-Year onsite parts and labor warranty	1	\$28,393.00	\$28,393.00
#H24H00-PM0085	<u>Hypertherm Powermax 85 Plasma Torch to include (230v 1PH/3PH):</u> - Techno's CNC Plasma real-time torch height control and torch mounting accessories - Cutting Specifications: Production Pierce = 5/8"	1	4,800.00	4,800.00
	<u>Freight</u>	1	2,000.00	2,000.00
TOTAL				\$35,193.00

- * Proposal total is F.O.B. destination.
- ** Proposal is valid for 60 days.
- *** Setup and training not included. See separate quote.

Ref. #C17-1147A2 - 06/29/2017

Customer to provide the following:

- 220vac single-phase 15amp dedicated circuit for the machine.
- #8 Ground wire to machine stand (**Required** for CNC plasma machines).
- **Dedicated power and a compressed air source (or Nitrogen) for the Powermax 85 torch, see info below:**
 Requirements: A clean dry non-fluctuating 90psi Compressed air or Nitrogen (required for Aluminum and Stainless steel cutting applications) source.

 Input Voltage:
 200-480V, 1-PH, 50/60Hz, CSA
 200-600V, 3-PH, 50/60Hz, CSA

 Input Current:
 @ 12.2kW Output
 200/208/240/480 V, 1-PH, 70/68/58/29 A
 200/208/240/480/600 V, 3-PH, 42/40/35/18/17 A

 Flow Rate and Pressure: 400scfh 6.7cfm @ 85psi
 Duty Cycle:
 60%, @ 85Amps, 230-600V, 3-PH
 60%, @ 85Amps, 480V, 1-PH
 50%, @ 85Amps, 240-600V, 1-PH
 50%, @ 85Amps, 200-208V, 3-PH
 40%, @ 85Amps, 200-208V, 1-PH
 100% @ 66Amps, 230-600V, 1/3-PH
 100% @ 46Amps, 230-600V, 1/3-PH
- A licensed electrician to perform/provide all electrical connections.
- 8" Dia metal duct and exhaust port to the outside. Machine stand has an 8" duct at the rear of the unit for the downdraft table.



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YORK COLLEGE CUNY
TECHNO HD-II 48" x 96" CNC PLASMA CUTTER

Part No	Description	Qty	Unit	Total
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- **Supplemental fume extraction (if needed).**
- **Access to a water source and drain for use with the water table inserts.**
- **PCs with CAD/CAM software.**
- **Customer is responsible for unloading the machine and placing it into the desired classroom. A forklift and special door access are required.**

Consumable Items:

	<u>Powermax 85 Torch Consumables Kit</u>	1	\$450.00	\$450.00
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Allegheny
Educational Systems, Inc.

YORK COLLEGE CUNY
TECHNO HD 48x96 CNC ROUTER

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
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Techno HD 48x96 CNC Router:

#HD-4896	Techno HD 48" x 96" Stepper CNC Router (230v 3phase) to include: - <i>Integrated stand</i> - <i>Standard 7.5" gantry height</i> - <i>Hand-held controller</i> - <i>Vacuum t-slot table (requires vacuum pump if vac-table is to be used)</i> - <i>4HP HSD Spindle</i> - <i>1-Year onsite parts and labor warranty</i>	1	\$27,322.00	\$27,322.00
	8HP Rotary Vane Vacuum Pump (230v 3-Phase)	1	8,358.00	8,358.00
	Cam Clamp, HD	2	81.00	162.00
	Clamp Bar, HD	4	81.00	324.00
	4-Pc Toggle Clamp Set	1	70.00	70.00
	Educational Tooling Kit	1	509.00	509.00
	Freight	1	2,000.00	2,000.00

GRAND TOTAL.....		\$38,745.00
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- * Proposal total is F.O.B. destination.*
- ** Proposal is valid for 60 days.*
- *** Setup and training not included. See separate quote.*

Ref. #C16-1148A2 - 06/29/2017

Customer to provide the following:

- **230vac 3-phase 20amp dedicated circuit with disconnect and machine ground for the CNC Router/Spindle. A separate 230vac 3-phase 40amp dedicated circuit with disconnect is required for the vacuum pump.**
- **#8 Ground wire to the machine stand (Highly recommended for CNC routers).**
- **A licensed electrician to perform/provide all electrical connections.**
- **PC/s with CAD/CAM software.**
- **A USB flash drive to transfer the NC files from the PCs to the CNC Router controller.**
- **A dust collection system (if desired).**
- **Customer is responsible for unloading the machine and placing it into the desired room. A forklift and special door access are required. Overall dimensions for the CNC Router are 119"L x 78"W x 60"H (not including the control cabinet). The vacuum pump is approximately 43"L x 30"W x 22"H.**



Allegheny
Educational Systems, Inc.

YORK COLLEGE CUNY
TECHNO HD-II MINI CNC ROUTER

320 East 3rd Avenue • Tarentum, PA 15084 • Phone (800) 232-7600 • Fax (724) 230-2406 • www.alleghenyedusys.com

Part No	Description	Qty	Unit	Total
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Techno HD-II Mini CNC Router:

#HD-II-MINI	Techno HD-II Mini 21x36 Table Top CNC Router System to include: - X-Axis Travel = 21" - Y-Axis Travel = 36" - Gantry Clearance = 7.5" - Micro Stepper Controller with Brushless Motors - Hand Held Control Pendant - Vacuum T-Slot Table (Includes Venturi Vacuum Generator for Vacuum Source) - Spindle = 2HP High Frequency Spindle, 6000-18000 RPM, with vac-hood, collect wrenches, ER16 collets (1/8", 1/4" x 3/8") and cover nut - 1-Year Onsite Parts and Labor Warranty	1	\$10,661.00	\$10,661.00
	Steel Base with Casters for HD-II Mini	1	1,340.00	1,340.00
	Top Safety Enclosure for HD-II Mini	1	1,554.00	1,554.00
	Toggle Clamp Set	1	70.00	70.00
	Cam Clamp	1	81.00	81.00
	Clamp Bar	2	81.00	162.00
	Starter Educational Tooling Kit	1	509.00	509.00
	Freight	1	1,500.00	1,500.00

TOTAL		\$15,877.00
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- * Proposal total is F.O.B. destination.
- ** Proposal is valid for 60 days.
- *** Setup and training not included. See separate quote.

Ref. #C17-1149A2 - 06/21/2017

Customer to provide the following:

- The CNC Router/Spindle requires a 220vac single-phase 15amp dedicated circuit with disconnect.
- #8 Ground wire to the machine stand (Highly recommend for CNC routers).
- A licensed electrician to perform/provide all electrical connections.
- A compressed air source for the Venturi vacuum pump.
- PCs with CAD/CAM software.
- A USB drive to transfer files from the CAD/CAM PCs to the hand-held controller.
- A dust collection system (if desired).
- Customer is responsible for unloading the machine and placing it into the desired room. A forklift and special door access may be required. Overall dimensions with stand and enclosure = 37.5"W x 65"L x 66"H (approx.)

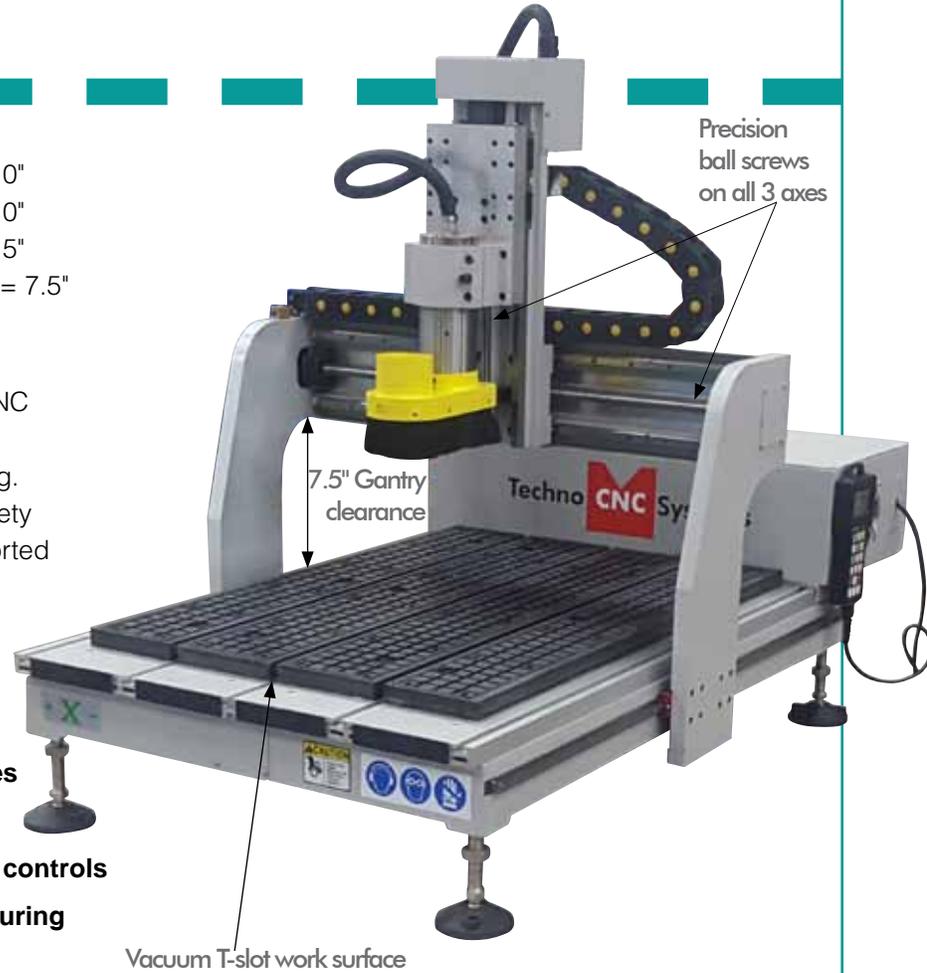
NEW

- X Axis Travel = 21.0"
- Y Axis Travel = 36.0"
- Z Axis Travel = 9.5"
- Gantry Clearance = 7.5"

Techno is proud to introduce the HD-II 2136 tabletop, a compact version of a full-scale CNC router system that can be implemented in a production environment or educational setting. The machine is available with an optional safety enclosure and stand. It can be easily transported around the facility to any convenient location.

FEATURES

- ✓ **21" x 36" Process area**
- ✓ **Precision ball screws on all three axes**
- ✓ **2 HP high frequency collet spindle**
- ✓ **Brushless micro stepper motors and controls**
- ✓ **Vacuum T-slot table for easy part fixturing**
- ✓ **Automatic tool calibration pad**
- ✓ **Linear rails and bearings**
- ✓ **Easy to Use Hand-Held Controller**
- ✓ **Includes: 1/8", 1/4", 3/8" collets and wrenches**



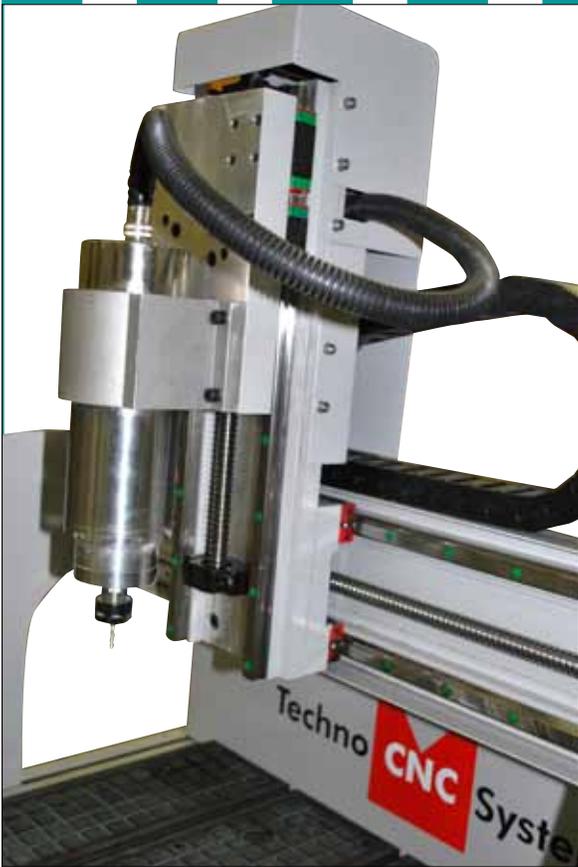
Vacuum T-slot work surface



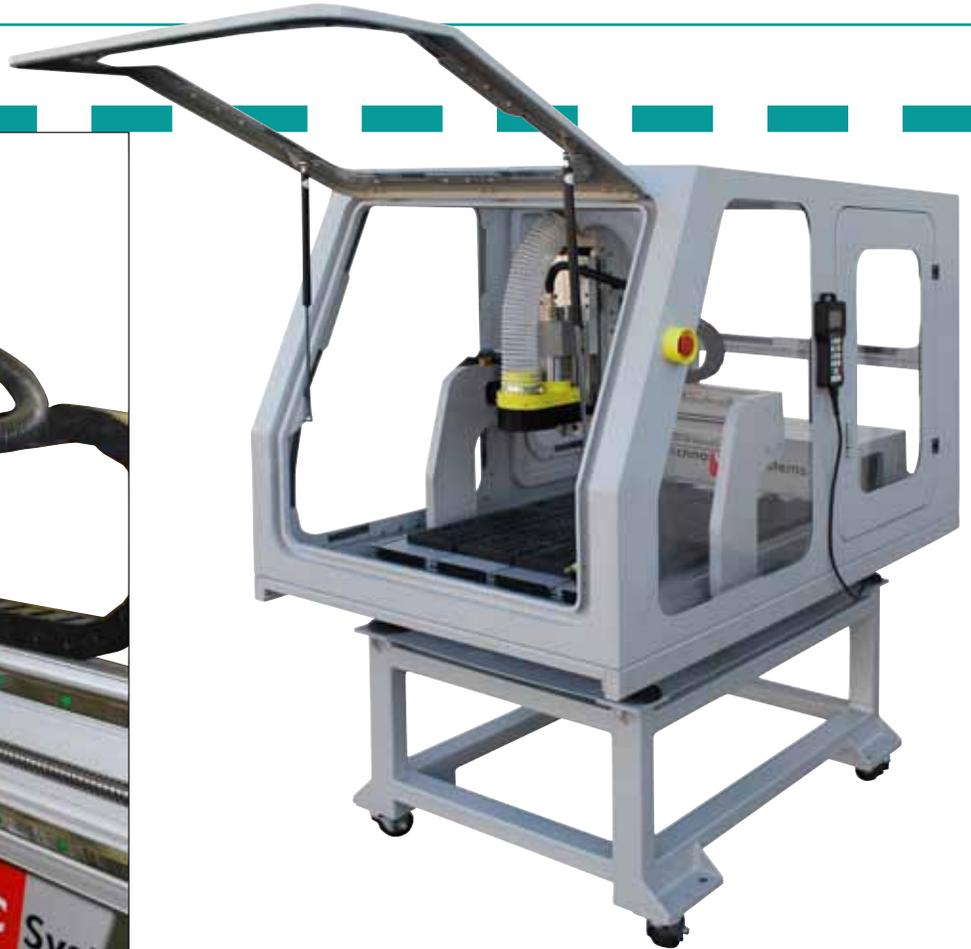
Hand-held controller: The heart of the HD-II Tabletop machine is it's easy to use Hand-held Micro Stepper Controller. The hand-held controller is so user-friendly that setup, installation and training is completed through our self-taught, step-by-step manuals. Every command is very easy to read, understand, and execute. We guarantee you will be cutting parts the same day you connect power to the machine!

OPTIONS

- Steel base with casters
- Full safety enclosure
- Vacuum pump
- 1.5 HP dust collector
- Vise
- Cam clamp
- Clamp bar
- Toggle clamp set (4 pcs)
- Coolant system
- 4th axis rotary table w/tailstock



2 HP high frequency collet spindle, 6,000 – 24,000 rpm, and ultra-quiet operation allow users to cut with the same accuracy and efficiency as larger format routers with little to no maintenance.



Shown is the Techno HD II 21 x 36 Tabletop CNC Router with optional safety enclosure and stand.



The rear view of the Techno HD II 21 x 36 Tabletop CNC Router is showing the electronics enclosure and vacuum connections



All the electrical components are housed, wired and tagged in the HD-II Tabletop electrical enclosure. This allows for easy access and service when needed.



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YORK COLLEGE CUNY
ROLAND MDX-540A CNC MILL

Part No	Description	Qty	Unit	Total
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Roland MDX-540A CNC Mill:

#MDX-540A	Roland MDX-540 CNC Milling Machine with 4-Tool ATC <i>19.6”(x), 15.7”(y), 6.1”(z). Includes spindle, SRP Player CAM software and 1-year onsite parts and labor warranty. Requires collets and tooling.</i>	1	\$30,995.00	\$30,995.00
#ZBX-540E	Safety Cover for MDX-540	1	1,539.00	1,539.00
#US-COL7-1/8	1/8” Collet for ATC	2	59.99	119.98
#US-COL7-5	3/16” Collet for ATC	2	59.99	119.98
#US-COL-1/4	1/4" Collet for ATC	2	59.99	119.98
#EM-KIT-LR	Long Reach Tooling Kit	1	379.99	379.99
#EM-KIT-SR	Short Reach Tool Kit	1	143.99	143.99
#TAPE-MILLING	Double-Sided Tape for Milling	2	10.49	20.98
	Freight	1	1,000.00	1,000.00

TOTAL				\$34,438.90
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** Proposal total is F.O.B. destination.*

*** Proposal is valid for 60 days.*

**** Setup and training not included. See separate quote.*

Ref. #C17-1150A - 06/21/2017

Please visit www.rolanddga.com to view the latest computer and utility requirements (power, air, etc.). Customer is responsible for unloading the machine and placing it into the desired classroom.

Options:

#ZTT-540	T-Slot Table for MDX-540	1	\$1,399.00	\$1,399.00
#ZCL-540	Rotary 4th Axis Unit	1	5,099.00	5,099.00
	Roland Project Based Learning Kit for MDX-540 Series	1	1,195.00	1,195.00



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YORK COLLEGE CUNY ARTEC EVA & SPACE SPIDER 3D SCANNERS

Part No	Description	Qty	Unit	Total
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Artec Eva & Space Spider 3D Scanner:

#EDU EVA SPACE BUND	Artec Eva & Space Spider 3D Scanners EDU Bundle <i>Includes both scanners, 20-free Artec Studio licenses, 2-year warranty and 2-years of updates.</i>	1	\$28,193.00	\$28,193.00
	Shipping	1	100.00	100.00

GRAND TOTAL.....				\$28,293.00
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- * Proposal total is F.O.B. destination.*
- ** Proposal is valid for 60 days.*
- *** Setup and training not included. See separate quote.*

Ref. #C17-1151A - 06/21/2017

Please visit www.artec3d.com for the latest system requirements. Additional PC RAM is recommended over the minimum specs for optimal performance (16GB – 32GB total).



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YORK COLLEGE CUNY DIWIRE+ DESKTOP WIRE BENDER

Part No	Description	Qty	Unit	Total
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DIWire+ Desktop Wire Bender:

#4D1132	DIWire+ Desktop Wire Bender EDU Bundle <i>Includes machine with Wireware software, 1/8" and 1/16" bend heads and feed wheels and 2-year warranty.</i>	1	\$5,355.00	\$5,355.00
	Shipping	1	100.00	100.00

GRAND TOTAL.....				\$5,455.00
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- * Proposal is F.O.B. destination.*
- ** Proposal is valid for 60 days.*
- *** Setup and training not included. See separate quote.*

Ref. #C17-1152A2 - 06/29/2017

Please visit www.pensalabs.com to view the latest system requirements.