2015 Achievement Awards Virginia Association of Counties

APPLICATION FORM

All applications must include the following information. Separate applications must be submitted for each eligible program. **Deadline: June 1, 2015.** Please include this application form with electronic entry.

PROGRAM INFORMATION

| Locality: Carroll County | |
|--|--|
| Program Title: STEM Lab for Agriculture | |
| Program Category: Community & Economic Development | |
| | |
| CONTACT INFORMATION | |
| Name. Gary Larrowe | |

Title: County Administrator

Department: Administration

Complete Mailing Address: 605-1 Pine Street, Hillsville, Va 24343

 $\frac{276-730-3001}{F_{ax} \#} \frac{276-730-3004}{276-730-3004}$

E-mail: cadams@carrollcountyva.org

SIGNATURE OF COUNTY ADMINISTRATOR OR CHIEF ADMINISTRATIVE OFFICER

| Hume. | Larrowe |
|--------------|-----------------|
| Title: Count | y Administrator |
| Signature: | AUMAN |
| | Sur Millie |
| | |

STEM Lab For Agriculture Project Carroll County, Virginia

1. Overview of the Program

Carroll County Public Schools has just opened a new STEM Lab for Agriculture. Carroll County is primarily an agricultural county. We have available in the county the following resources and opportunities: a school farm; the STEM Lab for Agriculture (we believe the first in the nation); agricultural internships; a commercial farmers market (\$60 Million a year); a local farmers market; agricultural packing houses; agricultural distributors; agricultural producers (local farmers both big and small); a local Board of Supervisors and Administrator who are extremely supportive of both agriculture and the school divisions efforts; a large number of partners: Virginia Tech, Wytheville Community College, the Crossroads Institute, our local farm producers, Virginia Produce, a number of large grocery chains, our local economic development organization, and the local Workforce Investment Act organization.

Our STEM lab is the top of the line. It was designed using the newest STEM lab at Virginia Tech as a model and has the same types of equipment. The lab is a \$500,000 investment by our Board of Supervisors, we have better equipment than most labs. Our students have already done soil and water samples from our school farm. They can tell you the types of bacteria (both good and bad) located in the soil and water. They have the ability to isolate DNA from both plant an animal matter. They have computers for the research and reporting their results. They have access to a Preengineering classroom across the hall which provides them with robotics, production management, laser cutters, 3-D printers, and CNC machining opportunities.

The only thing that our area does not have currently is a large food processing business. We believe that our efforts will be instrumental in attracting such a business to our area. We already have an industrial park completely ready for a business to build - water, sewer, electricity, fiber optic cable, and huge graded space waiting for some business.

We are working with Virginia Tech to design and build a STEM bus that will visit our elementary schools to introduce our K-5 students to STEM concepts and research. We are working with Virginia Tech graduate students to help us tweak the curriculum in our STEM lab at Carroll County High School (CCHS). We have submitted an FDA Challenge Grant with Virginia Tech and Wytheville Community College to create a Food Safety pathway for our students to begin work immediately upon graduation from CCHS; work toward an associates degree in Food Safety (possible the first on the east coast); or continue their studies toward a BS, MS, or PHD in Food Safety at VT. This semester we instituted a pilot internship in agriculture in which our students will spend 3 weeks with a farm producer, 3 weeks with a packing house, and 3 weeks with Soil Conservation.

Our hope is that these interns in future years will choose one aspect of agriculture and concentrate on that area during future internships.

Our middle school currently has both agriculture and STEM classes available. Our middle school students have their own farmers market after school when crops are in season. The get to keep the profits from the crops they bring to sell. Our parents and staff absolutely love this farmers market.

Our middle school STEM program introduces our students to elementary robotics and computer aided design. Our agriculture curriculum at the middle school introduces our students to computer controlled cutting and routing.

We truly believe that we can teach any of the STEM areas using Agriculture as the conduit.

As you can see, I am very excited about the potential of Carroll County Public Schools and STEM education with a focus on agriculture. I truly believe that we are workforce development, economic development, pathways for our students to work, community college, or a four-year institution. We will be a huge draw to any industry, business, or service that might want to come to Carroll County. I am very tired of handing diplomas to students in May knowing they will take our counties gift of education and skills to other areas of the state and country. I believe this is the beginning of the end of that practice. Our students will be able to go to work directly out of high school; succeed at a community college and use those skills here in our county; or be successful at a fouryear institution and return to Carroll County to make a living.

We will always have a number of students who want to stretch their wings and try living in another area of the nation, but we have a much larger number of students who would prefer to stay in Carroll County to raise a family and make a living. I believe we can make that happen. STEM Lab for Agriculture Project Carroll County, Virginia

2. The Problem/Need for the Program

The United States has become a global leader, in large part, through the genius and hard work of its scientists, engineers and innovators. Yet today, that position is threatened as comparatively few American students pursue expertise in the fields of science, technology, engineering and mathematics (STEM).

President Obama has set a priority of increasing the number of students and teachers who are proficient in these vital fields. Millions of dollars have been included in the fiscal year 2015 budget as an investment in STEM programs.

Carroll County has deep seeded roots in Agriculture with the farm production and Agriculture providing the largest economic sector. In recognizing the importance of Agriculture to the citizens and to the well being of the community as a whole, the Carroll County Board of Supervisors have focused several projects on Agriculture, including the STEM Lab.

The STEM Lab for Agriculture was developed by a core group of Board of Supervisor Members, Educators and the Members of the Carroll County Industrial Development Authority (IDA). The concept of experiential education is being lost in today's educational arena due to the fact of massive texting and less emphasis on being able to accomplish problems. The problem solving approach to education I provides a better learning tool and provides for education to be transferred from one area to another.

It is anticipated that not only farm career youth use the STEM Lab for Agriculture but also students who are headed into the medical field or other biological sciences. It is also believed that the STEM Lab for Agriculture will "grow" a new area of education across the nation and around the world. STEM Lab for Agriculture Project Carroll County, Virginia

3. Description of the Program

In 2008, the Board of Supervisors set a Board Goal to assist the Carroll County Public School System that would result in better preparation for High School and post secondary education success. In 2010, the BOS refined the Goal to include a STEM Lab for Agriculture. The Science, Technology, Engineering and Math Lab was fully functional in 2014. It is planned that the STEM Lab students learn scientific protocols that will assist local producers to meet higher Food Safety levels with providing lab services that will enhance their necessary documentation. While at the same time of the students solving real-life problems, they will utilize Science, Technology, Engineering and Math that will provide a new scientific base for further education in many disciplines. It is expected that other uses of the Lab will be developed as new needs for analysis is developed.

(Please see attached Press Release)

Carroll County, Virginia

4. Cost of the Program

Carroll County Board of Supervisors financed the STEM Lab for Agriculture Project through USDA-RD with over a \$540,000 investment in Agriculture, Education and Economic Development. A spread sheet is attached showing costs for construction, legal fees, professional fees, and furniture and fixtures. The program was included in the Carroll County High School HVAC re-model of approximately \$15,000,000 in 2014.

STEM Lab for Agriculture Project Carroll County, Virginia

5. The Results/Success of the Program

The STEM Lab for Agriculture has:

Attracted students from non-Agriculture arenas as a learning tool The STEM Lab for Ag. Is being visited on a weekly basis by visitors such as VA Tech, Members of Congress and the State 4-H Director.

A USDA Challenge Grant has been written based on the STEM Lab for Agriculture and news stories have spread across 32 ststes associated with the STEM Lab for Agriculture

The Local School Superintendent has been quoted as saying that the STEM Lab for Agriculture is the best element of the Carroll County Public School offerings.



First STEM Lab for Agriculture in the Nation to Open August 6, 2014

Carroll County, Virginia has deep seeded roots in Agriculture with farm production and Agriculture providing the largest Economic sector. In recognizing the importance of Agriculture to the citizens and to the well being of the community as a whole, the Carroll County Board of Supervisors have focused several projects on Agriculture.

In 2008, the Board of Supervisors (BOS) set a Board Goal to assist the Carroll County Public School System that would result in better preparation for High School and post secondary education success. In 2010, the BOS refined the Goal to include a STEM Lab for Agriculture. The Science Technologly Engineering and Math Lab is set to open at Carroll County High School (CCHS) this school year (2014).

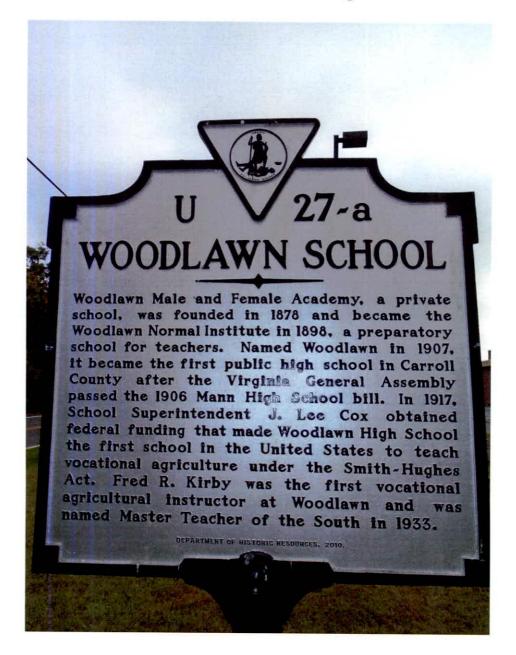


New Fully Equipped STEM Lab for Agriculture in Carroll County High School

The Carroll County Board of Supervisors financed the STEM project through USDA-RD with a \$500,000 investment in Agriculture, Education and Economic Development. It is planned that the STEM Lab students learn scientific protocals that will assist local producers to meet higher Food Safety levels with providing lab services that will enhance their necessary documentation. While at the same time of the students solving real-life problems, they will utilize Science, Technology, Engineering and Math (STEM) that will provide a new scientific base for further education in many disciplines. It is expected that other uses of the Lab will be developed as new needs for analys is developed.

History Repeats in Carroll County

Carroll County was the first location in the nation to teach Agriculture in High School through the Smith-Hughes Act of 1917. Now, Carroll County has the first High School in the nation to have a STEM Lab for Agriculture.



Carroll County is also one of only a few Counties in VA and the nation to have working school farms associated with the High School as well. Carroll County is also the home of the Southwest VA Farmers' Market that assists local producers to market more than \$30,000,000 of local crops per year. With the combination of the local assets, students will be able to learn about, identify and solve many real life problems in Agriculture and the community.

The combination of Agriculture Classroom instruction, STEM Lab for Agriculture, the School Farm, and the Farmers' Market is a unique combination that has equipped the Carroll County Public School System to be a National Leader in the arena.

Every subject of STEM can be taught using Agriculture as the "carrier subject" and the education can be transferred to other disciplines with little trouble. In today's environment, having the ability to solve problems and use Science, Technology, Engineering and Math to back up the solution is paramount for future success.

It needs to also be pointed out that the Carroll County Industrial Development Authority (IDA), Virginia Tech, VA Cooperative Extension and USDA-RD have been helpful in the process of developing the Carroll County STEM Lab for Agriculture.

For more information, please contact: Gary Larrowe Administrator, Carroll County <u>GLarrowe@CarrollCountyVA.org</u>

Dr. Strader Blankenship Superintendent, Carroll County Public School System <u>sblanken@ccpsd.k12.va.us</u>

Randy Webb Agriculture Instructor, Carroll County Public School System rcwebb@ccpsd.k12.va.us

| 17057 · CIP-CCHS | STEM lab | | | |
|-----------------------|-------------------------|------------------------------------|--|------------|
| Bill | 01/27/2014 Pay app #1 | Clark Brothers Company | | 14,419.8 |
| Bill | 02/24/2014 Pay app #2 | Clark Brothers Company | | 42,511.50 |
| Bill | 03/24/2014 Pay app #3 | Clark Brothers Company | | 71,004.60 |
| Bill | 04/28/2014 Pay App #4 | Clark Brothers Company | | 75,199.50 |
| Bill | 06/02/2014 Pay App #5 | Clark Brothers Company | | 110,483.10 |
| Bill | 06/24/2014 Pay app #6 | Clark Brothers Company | | 31,472.47 |
| Bill | 08/08/2014 Pay app #7 | Clark Brothers Company | | 39,669.94 |
| Total Construc | tion | | | 384,760.9 |
| Bill | 02/18/2014 IDA Rev Bo | nd Botkin Rose PLC | Legal fees | 2,226.25 |
| General Journal | 01/31/2014 462 | CTI Consultants Inc | recls CTI 0010076 | 402.75 |
| Bill | 02/28/2014 0010231 | CTI Consultants Inc | | 268.50 |
| Bill | 03/31/2014 0010446 | CTI Consultants Inc | | 671.25 |
| Bill | 10/31/2013 13028-1 | The Lane Group | | 6,808.60 |
| Bill | 11/29/2013 13028-2 | The Lane Group | | 6,837.50 |
| Bill | 12/30/2013 13028-3 | The Lane Group | | 3,867.50 |
| Bill | 02/28/2014 13028-4 | The Lane Group | | 5,611.40 |
| Bill | 03/26/2014 13028-5 | The Lane Group | | 4,527.50 |
| Bill | 04/30/2014 13028-6 | The Lane Group | | 892.50 |
| Bill | 08/29/2014 13028-7 | The Lane Group | | 595.00 |
| Bill | 11/20/2013 80303253 14 | 44 The Roanoke Times | | 1,034.64 |
| Total Construct | tion professional fees, | /Admin | | 33,743.39 |
| Bill | 03/27/2014 1132987 | Markertek.com | KR-VP728 - Kramer VP-728 9-Input Digital | 2,035.50 |
| Bill | 03/27/2014 1132987 | Markertek.com | OMX-HDMI-1X4DA - Ocean Matrix OMX-HDMI-1X4DA 1x4 Splitter 3D HDMI / Distribution Amplifier | 189.90 |
| Bill | 03/27/2014 1132987 | Markertek.com | KAN-HDEXT50M - KanexPro HDEXT50M Extends HD Signals over Single CAT 5e/6 up to 165ft (50m) | 218.85 |
| Bill | 03/27/2014 1132987 | Markertek.com | HDMI-14-3 - TecNec HDMI Cable v1.4 Ethernet & 3D Type-A Male to Male - 3 Foot VENDOR ADVISED | 82.90 |
| Bill | 03/27/2014 1132987 | Markertek.com | Freight | 50.00 |
| Bill | 05/01/2014 0099257 | Advanced Logic Industries, Inc | HP Workstation 2230 E2A59UT#ABA | 25,155.06 |
| Bill | 05/01/2014 0099257 | Advanced Logic Industries, Inc | HP Compag LA2405x A9P21A8#ABA | 5,722.86 |
| Bill | 07/23/2014 2329201 | Camcor, Inc | ELD4025 CEF ELD Series 30"x30" Fixed Height Com Table w/ CPU Holder and Surge Protector | 4,880.00 |
| Bill | 08/14/2014 081414 STE | M Carroll County Public Schools AP | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2,313.76 |
| Bill | 04/25/2014 LL20844 | CDWG | 2954034 HITACHI CP-X2530WN PROJ 2700 LUM Mfg#: CP-X2530WN Contract: Fairfax County PS 4400004635 | 663.00 |
| Bill | 05/28/2014 MD17482 | CDWG | | 398.27 |
| Bill | 06/23/2014 LK50548 | CDWG | 1359251 TRIPP USB 1.1 OVER CAT5 EXTENDER TAA Mfg#: U007-40M Contract: Fairfax County PS 44000 | 48.00 |
| Bill | 06/23/2014 LK50548 | CDWG | 3080961 PEERLESS CEILING MOUNT KIT Mfg#: PRSS-UNV Contract: Fairfax County PS 4400004635 | 79.00 |
| Bill | 06/23/2014 LK50548 | CDWG | 3005639 SAMSUNG 46" PRO LED DISPLAY Mfg#: ME46C Contract: Fairfax County PS 4400004635 | 3,525.00 |
| Bill | 06/23/2014 LK50548 | CDWG | ERGOTRON NEO-FLEX TILT WALLMNT UHD Mfg#: 60-612 Contract: Fairfax County PS 4400004635 | 276.00 |
| Bill | 06/20/2014 6005 | KenNect Communications, LLC | Materials to provide and install 700' MM 6-strand Armored Fiber cable, and 19 each additional Ge | 2,316.58 |
| Bill | 06/20/2014 6005 | KenNect Communications, LLC | Labor | 3,650.38 |
| Bill | 04/28/2014 28337 | See Our Sound | Atlas 35 Watt Mixer/Amp AA35 | 215.00 |
| Bill | 04/28/2014 28337 | See Our Sound | Bogen Lay-in Ceiling Speaker CSD1X2 | 88.00 |
| Bill | 04/28/2014 28337 | See Our Sound | UPS | 35.00 |
| Jiii | | | | |

| Bill | 04/08/2014 441160 | The Whitlock Group | Freight | 110.00 |
|------|------------------------|------------------------------------|--|-----------|
| Bill | 07/08/2014 452244 | The Whitlock Group | Smart Tech WC6D wireless adapter | 179.10 |
| Bill | 05/01/2014 1690554752_ | Wayfair Supply | NP1036 NP1036 National Public Seating Height Adjustable Stool with Adjustable Backrest (#6424B) | 1,103.00 |
| Bill | 05/01/2014 1690554752_ | Wayfair Supply | HA1063 Holsag Carlo Stacking Classroom Chair in Beachwood (Carlo Stacking Chair - Black/Natural) | 1,574.00 |
| Bill | 05/01/2014 1690554752_ | Wayfair Supply | BS1346 Best-Rite 4' x 6' Platinum Reversible Markerboards (669RG-HH) Material: Dura-Rite Markerb | 514.72 |
| Bill | 05/23/2014 1690554752- | 2 Wayfair Supply | VR3890 Virco 2000 Series 31" Laminate Chair Desk () Desk Finish: Medium Oak; Frame Finish: Char | 3,613.00 |
| | Total Furniture/Fixtu | res | | 60,446.88 |
| Bill | 04/01/2014 48714139 RI | Carolina Biological Supply Company | 292142 GENERAL BIOLOGY SLIDE SET | 972.78 |
| Bill | 04/02/2014 48715630 RI | Carolina Biological Supply Company | 216292 MULTI MINI W/0.5 ML BLOCK-115V- 4 week direct ship delivery on this item | 2,849.95 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 213624 CA CLG ELECTROPHORESIS EQUIP | 7,694.96 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 706706 BURNER, BUNSEN, FEDERAL SPECS | 191.90 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 214072 REVOLUTIONARY SCI CENT RS-102 | 275.27 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 701012 CAROLINA HOT PLATE/STIRRER | 3,411.40 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 701075 MIXER, VORTEX, UNIV. HEAD, | 2,394.00 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 701296 INCUBATOR, LAB, 0.7 CU FT. | 333.45 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 717850 KIT, LABWARE, BASIC PKG, | 2,334.10 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 186009 PHMETER, HANNA, ALL IN ONE, W/STR | 1,192.50 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 702017 BALANCE, CAROLINA, SLB302 | 3,496.90 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 213682 TRANSILLUMINATOR UV LIGHT 110V | 923.36 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 665413 DIGITAL SOIL TEST KIT | 299.20 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 665404 TEST KIT, RAPITEST SOIL | 93.85 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 215595 DELUXE STAINING TRAY | 84.20 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 850120 BROMOTHY BLU CAPSULES 5PK | 70.02 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 861283 FL-ETHANOL 95% 3.8L | 46.42 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 211162 EZ GENE SPLICER 8 STN | 162.41 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 706360B EXAM GLOVE,LATEX,POWDERED,MED | 15.74 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 706360C EXAM GLOVE, LATEX, POWDERED, LRG | 15.74 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 706360D EXAM GLOVE, LATEX, POWDERED, XL | 15.74 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 646704B SM/LG SAFETY GOGGLE VALUE PK20 | 108.16 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 713044 PARAFILM(R), 2IN, ROLL/250FT | 119.25 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 821046 COLLEGE NUTRIENT AGAR MEDIAKIT | 145.26 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 629004 PAN, ALUM DISSECT, W/PAD,13x9" | 292.40 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 621103 DISSECTING SET, STUDENT, SET III | 230.00 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 716594 BOTTLE, WASH, WIDE, 500ML, EA | 93.00 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 898890 YEAST ACTIVATED PWD 100G | 18.38 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 894720 SINGLE DISP PH 1-14 | 106.80 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 647008 AG.AB.CLEANUP PADS, 15X19, PK100 | 224.26 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 701700 DISTILLER, FILTER-TYPE, EACH | 565.15 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 701700A FILTER, DISTILLER REPLACEMENT | 148.26 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 591976 STEREOMICRO, WOLFE(R), PROZOOM | 5,625.00 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 591407 MOTICAM, MOTIC, 1SP | 314.97 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 292142 GENERAL BIOLOGY SLIDE SET | 648.52 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 631960 CAROSLIDE SET, BX72 +CVRS | 169.30 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 215066 MICRO TIP 215128 .5-10 PK96 | 186.00 |
| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | 653303 CAROLINA(R) SPECTROPHOTOMETER - 4 week direct ship delivery on this item | 879.94 |
| | | | | |

| Bill | 04/03/2014 48716672 RI | Carolina Biological Supply Company | Freight | 847.25 |
|------|------------------------------|------------------------------------|--|---------------------------------|
| Bill | 04/04/2014 48717621 RI | Carolina Biological Supply Company | 646842 ULTRAVIOLET STERILIZATION - 4 week direct ship delivery on this item | 536.94 |
| Bill | 05/07/2014 48757346 RI | Carolina Biological Supply Company | 199736 PURAIR 5, 36" WIDE- 6 week direct ship delivery on this item | 2,992.46 |
| Bill | 05/14/2014 48764345 RI | Carolina Biological Supply Company | 701650 AUTOCLAVE, TUTTNAUER, EZ10-6 week direct ship delivery on this item | 5,698.57 |
| Bill | 06/02/2014 48769778 RI | Carolina Biological Supply Company | 592011 MICROSCOPE, DIGIVU, SM3.0, STEREO | 755.10 |
| Bill | 06/11/2014 | Carolina Biological Supply Company | 653342 TEST TUBE CUVETTES, 12PK | 85.42 |
| Bill | 06/10/2014 615680 | DISYS Solutions, Inc | WS-C3560X-24P-S Catalyst 3560X 24 Port PoE IP Base | 3,162.00 |
| Bill | 06/10/2014 615680 | DISYS Solutions, Inc | C3KX-NM-1G Catalyst 3K-X 1G Network Module option PID | 310.00 |
| Bill | 07/09/2014 616080 | DISYS Solutions, Inc | GLC-SX-MMD= 1000BASE-SX SFP transceiver module MMF 850nm DOM | 310.00 |
| Bill | 05/20/2014 2488700 | Ferguson Enterprises, Inc | OFGPRST750500 | 74.79 |
| Bill | 05/20/2014 2488700 | Ferguson Enterprises, Inc | PFGPFST750 | 69.65 |
| Bill | 05/20/2014 2488700 | Ferguson Enterprises, Inc | IBRCDC | 6.95 |
| Bill | 05/20/2014 2488700 | Ferguson Enterprises, Inc | Freight | 16.05 |
| Bill | 05/21/2014 2488592 | Ferguson Enterprises, Inc | OFGPCS750250 | 76.85 |
| Bill | 05/21/2014 2488592 | Ferguson Enterprises, Inc | REC31431 | 15.27 |
| Bill | 04/21/2014 5132837 | Vernier Software & Technology | LQ2-AG-DLX AG SCIENCE LABQ2 DLX PKG 10 LABQ2 VERNIER LABQUEST 2 10 TMP-BTA STAINLESS STEEL | 14,880.00 |
| Bill | 04/21/2014 5132837 | Vernier Software & Technology | | 99.00 |
| | Total lab equipment/supplies | | | |
| | Grand Total | | | 545,636.02 |
| | | | | STATUS AND ADDRESS OF THE PARTY |

