



December 17, 2013

Mr. Phillip J. Hanson, President & CEO
Truman Heartland Community Foundation
4200 Little Blue Parkway, Suite 340
Independence, Missouri 64057

RE: Proposed MCC - Blue River Cyber Security Equipment Rack

Mr. Hanson:

The purpose of this letter is to express our interest in obtaining funds from the Truman Heartland Community Foundation to assist MCC – Blue River in creating a Cyber Security experimental network lab.

Located in Independence, Missouri, MCC-Blue River is a beautiful campus, which sits on approximately 67 acres with well over 170,000 square feet of state of the art educational facilities where over 3,000 students are served by over 220 full and part-time faculty and staff. MCC-Blue River proudly offers an exceptional general education foundation as well as a phenomenal Music and Theater curriculum, cutting-edge police and fire fighter academies and our newest program Computer Science and Information Systems: Cyber Security.

Our objective is to provide students in the new Cyber Security program with an experimental network lab where they can complete hands on exercises in securing data and networks without fear of damage to our production network. At the heart of the proposed experimental network lab is a rack of equipment consisting of two servers, a 26 port Power Over Ethernet (POE) switch, and an Uninterruptible Power Supply (UPS) power conditioning unit. The experimental network would include 26 student workstations currently in the room along with additional data cable drops. Students will use the workstations to configure multiple virtual machines residing on the two servers to experiment with multiple operating systems. The servers will have the capability of running several virtual machines simultaneously allowing the students to learn how various versions of operating systems interact with respect to data security and network integrity. An experimental network allowing students the opportunity to gain hands on experience through real world scenarios using virtualization technologies will be instrumental in their learning process. This experimental lab will be used in most, if not all, of the required courses for the new Cyber Security program taught at MCC - Blue River.

Specific funding needs are as follows:

- Two HP DL380 P servers capable of running 120 virtual machines simultaneously.
- One Cisco SC200-26P 26-Port Gigabit POE switch.
- One Tripp 1500VA UPS Smart 120V power conditioning unit.
- One APC Netshelter SV 42U equipment rack.
- One dedicated 20 Amp outlet with a NEMA 5-15R twist lock.

With a total investment of \$25,000 in this project, the Truman Heartland Community Foundation will be providing academic resources that will aid in job readiness of our students.

MCC-Blue River Cyber Security Equipment Rack	
Item	Price
Two HP servers	\$23,122.00
One Cisco Switch	\$532.00
One UPS	\$488.00
One Rack	\$731.00
Electrical wiring	\$150.00
	Total: \$25,023.00
Truman Heartland Community Foundation:	\$25,000.00

This proposal was developed by the following MCC – Blue River professionals: Melissa Napper, CSIS Faculty and Discipline Coordinator; Cheryl Winter, Division Chair Business Technology, Mathematics and Public Safety; Brian Hurley, Network Administrator and CSIS Instructor; in consultation with Thomas J. Cooley, Facilities Superintendent; Steven D. Johnson, Associate Dean of Instruction; and Dr. Michael L. Banks, President.

Sincerely,



Michael L. Banks