

USI Classroom SC1212 Group Work Dual Monitor Stations

Scope of Work

SUMMARY

The purpose of this document is to constitute a scope of work for a remodel of SC 1212 at the University of Southern Indiana. Vendor is to furnish the equipment, accessories and materials listed in the proposal. The new system shall consist of the following electronics, associated material, hardware and wiring necessary for a complete, satisfactorily installed operating system which meets specified requirements. Items outside of the specified system would be considered a change and/or additions to the scope and must be approved by IT AV at the University of Southern Indiana.

Overview of Customers Needs

USI has a room (HP 3121) that is already equipped and functioning. USI is wanting to duplicate this type of room in SC 1212. SC 1212 will have an instructor station and 6 huddle type desks. AV connectivity, equipment, etc., will be needed at the instructor station and also each of the huddle type desks in SC 1212 .

Functional Description of Solution

Room Layout

Vendor will provide and install an interactive wall mounted short throw projector and align to the painted surface on the wall. Vendor will provide and install twelve 42-inch monitors on wall mounts. One will be mounted at each huddle station with base of monitor in line with tabletop, and the other monitor immediately above the first monitor. One monitor will be for local student collaboration and the other will be for teacher presentation. Vendor will provide a Mersive wireless presentation device at each huddle station to allow for the four people seated at the huddle station to present to the local display. These six sources will connect to a matrix switcher over a Crestron HDMI DM extension system. Vendor will provide an auto switching input at the instructor station with HDMI and audio over DM to the matrix video switcher and USB for connectivity for the interactive projector. All of the inputs in the room will connect to the matrix switcher and then feed the thirteen displays with HDMI over DM to the receivers at the displays. This setup will allow for each of the huddle stations to be shown on their local display or to be routed to any display by the instructor including the projector. Any of the eight input sources are routable to any of the thirteen displays. Vendor will provide a sound system in the room consisting of an amplifier and six ceiling speakers. The room sound will follow the source that is feeding the projector. Vendor will provide a control system in the room to ease in operation. The control system will be a Crestron processor and a Crestron 10 inch tabletop touch panel at the instructor station. Control will include power on and off the displays, source selection to the displays and volume level of the projector source. The system will be set to start up at a default status with each station

Mersive device being routed to the local display and one of the instructor inputs being routed to the projector and lower displays. There will be a routing page to allow for routing any of the 8 sources to any or all the displays. Power and network will be needed at each display location. The equipment will be mounted in a vendor supplied equipment rack in a nearby room.

Network

USI will provide any required computer network, IP addresses and necessary firewall configuration as required for the project. USI will supply the installation and configuration of network wiring related to data connections. Vendor is to supply, install and test all necessary AV cabling needed for this functional system.

Wiring Path and Electrical

As part of the system installation, it is necessary to provide appropriate wiring path for low voltage, audio visual wiring. It is presumed that the necessary wiring can be pulled through voids in the wall and ceiling of the space. If not, conduits to accommodate data and audio-visual connections may need to be provided by the vendor. USI shall install power and data as required. Any penetration through the floor will be done by USI.

Timeline

All work and components to finish the project, as detailed above, are to be installed by Monday, August 7th, 2023.

Conclusion:

Requests for proposal should include component and unit pricing. The bidder must provide a total price for accomplishing the work described above. Examination of SC 1212 (and HP 3121) may be arranged by appointment by contacting Michael Mikulski at 812-228-5096 or mjmikulski@usi.edu. Proposals must be received by 2PM Evansville time on Thursday, April 27, 2023.



