

ISIT/FACILITIES/OTHER EQUIPMENT REQUEST 2018:

Program or Service Unit:	Electronics Technology
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Funding Source or needs funding. Please explain	Can potentially be funded by one or more of the current CTE grants (Strong Workforce, Perkins/VTEA, etc.)
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PLEASE NOTE: If you have multiple requests, please submit multiple forms.

Please share as many details as possible such as room location(s), type of equipment and/or software requested. If you have a cost estimate, that would be helpful, we will contact you for more details.

Please share as many details as possible such as room location(s), type of facilities request, remodel or construction request, safety concern, or furniture request.

You will have an opportunity to present your request to the ISIT/FACILITIES OR CTE committee.

I am requesting the following:

This is the list of potential equipment purchases as part of available funding sources and opportunities (by equipment category – not by specific course, since equipment can be used for several different courses). We were asked to include potential equipment needs in our program review process.

Basic Electronics and General Lab Equipment

- LabVolt trainers for the new ELET B1b Basic Electronics (AC and Analog) course, replacement boards for the LabVolt trainers as needed.
- Other lab boards and trainers for our two Basic classes, and for the Delano Center when needed.

Motors and Controls

- Additional motors, control trainers, transformer trainers, industrial sensors, measurement devices, and technology for advanced motor control, servo motor systems, other motor types, brushless DC motors, equipment additions required by the new HVAC program content enhancements to our courses.
- Motion control trainers to provide an advance motors and controls course to meet industry requests

Instrumentation

- Replacing old, outdated Process Control trainers (purchased in 2004) with current models having current technology.
- Components and materials needed to build trainers for instrumentation (industrial measurement) processes and devices not currently available to students in the courses but are highly desired skills by our local employers.

Automation and CIM

- Upgrades to the individual PLC workstations and interconnected lab equipment.
- Upgrades and expansion of the Computer Integrated Manufacturing (CIM) cell and automated facility simulation equipment
- Additional materials, components, software, and fabrication services needed to support the Industrial Communications/networking instruction capabilities of the CIM lab

Electronic Communications

- Test and calibration equipment needed for two-way radio, fiber optic communications, and other electronic communications lab equipment and resources

Mechanical Systems

- Purchase more sets of pneumatic trainers for a lower student-to-trainer ratio.
 - Purchase equipment and resources to add “precision measurement,” “internal and external threading operations,” “mechanical drives,” and other lab activities needed to complete the hands-on lab match of the topic outline/CSLO’s. (i.e. to provide the lab activities that have only been covered in lecture to this point)
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