



CSI Labs

Create

Solve

Innovate

What is it?

A portable STEM-based (Science, Technology, Engineering and Math) set of labs, transported in a trailer containing 10 unique labs to travel among public and private schools within ESU 11's territory. This is a three-year program. The CSI Labs are collaborative work spaces for making, learning, exploring and sharing. This cutting-edge system, with a proven track record, was first implemented by Nebraska Public Power District in 2015.

Schools may reserve the CSI labs for two weeks of use by contacting ESU 11. They are available on a first come, first serve basis. The labs have the potential to reach all 13 schools per academic year. These labs are estimated to reach **1,450 students** during the three-year program.



What does it cost?

\$125,000

- Initial cost of labs and trailer
- Maintenance (3 years)
- Marketing (3 years)
- Staffing (3 years)



Sources of funding

- Investor Business Partners
- ESU 11 strategic partnership



Benefits for Investor Partners

Access to students by:

- Investing in the future workforce
- Capstone events
- Business facility tours
- Media exposure
- Lab trailer and unit signage
- Marketing materials

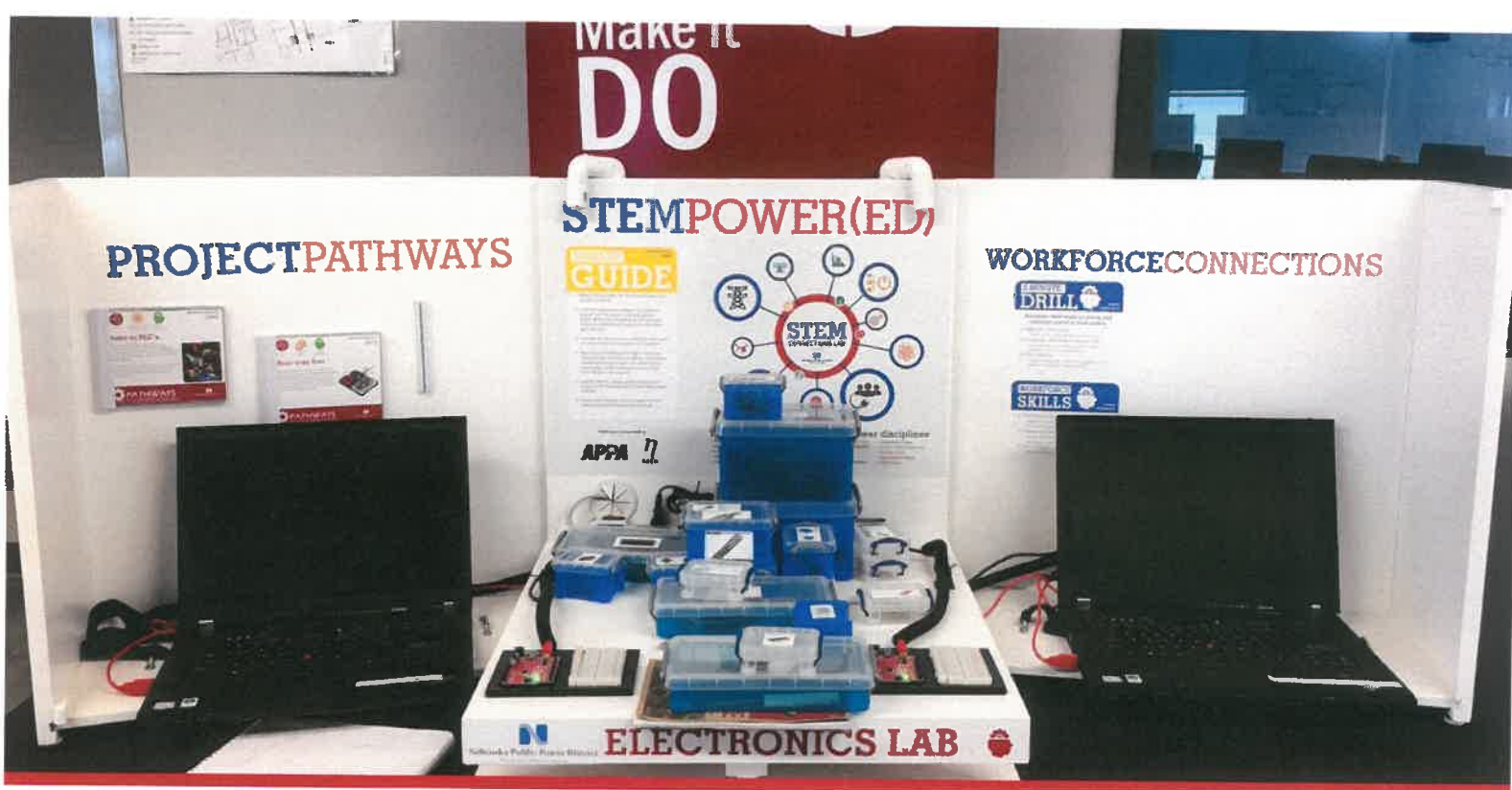


Contact

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Lab Units are broken down into four sections:



Make it NEW

- Afinia H800 3D printer
- Carvey 3D CNC Machine
- Engineering Workshop
(Motors, multi-meters, wires, etc.)

Making it new through rapid prototyping from raw materials and finished products to actually implement your ideas. Additive and subtractive manufacturing through 3D printing, engraving/carving, and applied engineering design.



Make it DO

- Robotics Innovation Lab
(Sphero & mBot robots)
- MakeyMakey + Rasberry PI Lab
- Electronics Lab
(Arduino Inventor's Kits)

What can you make existing equipment DO with logic, programming, and creative ideas. A "maker's" take on robotics, coding, and unique adaptations of different tools.



Make an IMPACT

- Sensor Station
(Arduino Sensors)
- Smart Home Internet of Things
(Little Bits & Sparfun IOT Proton board)

Making a difference in this world through social innovation takes a keen eye on the needs of your community. Using sensors, tools, and innovative skills, you can make an impact on someone's life. Using data to make informed decisions.



Make it YOU

- Virtual Reality
- Branding / Marketing Lab
(Vinyl Cutter)

You are uniquely you. Here is your chance to be creative with design and personalized touches. Make your statement here!