

2025 Pennsylvania Governor's STEM Competition Budget

Formal Project Title:	Integrating E-Textiles, Nanotechnology, And Artificial Intelligence to Enhance Physiological Data Acquisition	Short Project Title:	Vital Air for Pennsylvanians
Principle Investigators: (Team Members)	Emma A. Simmons & Sarah C. Simmons	School Name:	Home School (Simmons Academy)
Supervisors Names:	Dr. Lisa S. McLeod-Simmons & Dr. Jeffrey A. Simmons	School Location:	Fairfield, PA

Invoice Date	Budget Item	Item Description	Justification	Direct Cost
2024-10-14	Arduino Nano RP 2040		Circuit Board	\$ 29.40
2024-11-20	Arduino Nano RP 2040		Circuit Board	\$ 29.40
2024-12-01	Mini PCB Prototype Board Solderable Breadboard		Circuit Board	\$ 7.49
2024-01-04	Arduino Nano 33 BLE Sense Rev2		Circuit Board	\$ 41.50
2025-01-16	Arduino Nano RP 2040 (x2)		Circuit Board	\$ 62.32
2024-09-13	Blynk IoT Cloud Platform monthly subscription		network subscription	\$ 7.00
2024-10-13	Blynk IoT Cloud Platform monthly subscription		network subscription	\$ 7.00
2024-11-13	Blynk IoT Cloud Platform monthly subscription		network subscription	\$ 7.00
2024-12-13	Blynk IoT Cloud Platform monthly subscription		network subscription	\$ 7.00
2025-01-13	Blynk IoT Cloud Platform monthly subscription		network subscription	\$ 7.00
2024-11-10	SparkFun Spectral Sensor Breakout		network subscription	\$ 27.95
2024-11-20	Near Infrared Sensor		Sensor	\$ 49.30
2024-12-18	Sensor Cable		Sensor accessory	\$ 16.50
2024-12-18	Snappable Protoboard		Board	\$ 17.90
2024-12-18	Single Lead AD8232 Sensor		Sensor accessory	\$ 42.14
2024-11-28	Compression shirt		Prototype accessory	\$ 21.98
2024-11-12	Digikey ensor cable with electrode pads		Sensor accessory	\$ 11.38
2024-11-12	Digikey sensor bioemdcial sensor pads		Sensor accessory	\$ 8.95
2024-11-10	Singe Lead double pes ECG sensor		Sensor	\$ 22.01
2024-11-28	Flexible Solar Panel Mini Thin Film Solar Cell		Solar Cell	\$ 38.12
2025-01-10	3.7V 4.2V to 5V DC-DC Step Up Power Module Voltage Boost Converter		Board accessory	\$ 7.99
2024-12-19	Digital Force Gauge Push and Pull Meter Dynamometer Tension Pressure		Testing Gauge	\$ 36.98
2024-12-06	Lithium Battery Charging Boost Mobile Power Protection PCB Board		Circuit Board	\$ 9.99
2024-12-04	Soldering Iron Kit		Board accessory	\$ 12.58
2024-12-04	Soldering bits		Board accessory	\$ 8.49
2024-12-04	Soldering bits		Board accessory	\$ 9.50
24-11-20	Highly Conductive Copper Fabric Blocking WiFi/RF Anti-Radiation Military Grade for Radiowave Microwave, Electromagnetic Fields		Sensor accessory	\$ 24.39
24-11-14	Amradiel Copper Fabric Blocking RFID/RF-Reduce EMF/EMI Protection		Sensor accessory	\$ 13.88
24-11-04	Linear Voltage Regulator 3-Terminals 250mA Fixed Output Voltage		Board accessory	\$ 9.59
TOTAL				\$ 594.73