

Supplies Budget Estimate

Below are all of the essential components needed for the current design of an indoor aeroponic growing system. Taxes and shipping have all been taken into account.

Item	Cost (tax + shipping included)	Supplier
T-slotted Aluminum Extrusions	\$150	Misumi
Brackets	\$20	Misumi
Foam Board	\$20	Home Depot
Cups	\$10	Amazon
Cloth	\$10	Amazon
Arduino	\$15	Amazon/Allied Electronics
Power Supply	\$15	Precision Installation Products
100 psi pump	\$75	Precision Installation Products
Pressure Switch	\$10	Precision Installation Products
Solenoid Valve	\$10	Amazon
Valves/fittings	\$25	Home Depot
Misting Nozzles	\$20	Amazon/Online supplier
Safety Valve	\$5	Amazon/Home Depot
Tubing	\$16	Amazon/Home Depot
Pressure Tank (2 gallon)	\$48	Amazon
LED lights or CFLs?	Variable (\$100-\$300) (will assume \$200 for calculations)	Amazon/Online supplier
Power Cords/Wires	\$15	Amazon
Braces	\$10	Misumi
Total:	\$674	

Below are all of the components for the next iteration of the design, which incorporates the use of microcontrollers from a project currently in BIOE 420 (microcontroller applications)

Item	Cost (tax + shipping included)	Supplier
Raspberry Pi	\$35	Amazon
Acrylic Sheets	\$35	Local Supplier
Casters	\$15	Home Depot
Humidity/Temp sensor	\$15	Amazon
Light Sensor	\$10	Amazon
GLCD Display	\$70	RepRap Discount
Total:	\$180	