## Mechanical Engineering

This recommended list is based upon a classroom size of 25 students. All costs are estimated and should be adjusted and verified with current quotes. No specific equipment vendor or brand names are endorsed due to various possibilities, but school districts should consult with stakeholders to ensure industry-recognized equipment and software are purchased. The intent of this list is to provide school districts with guidance on the equipment needed to cover the state standards for a Mechanical Engineering program.

Classroom Equipment

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
| :---: | :--- | ---: | :---: |
| 25 | Student Workstations w/chairs | $\$ 400$ | $\$ 10,000$ |
| 1 | Teacher Workstation w/chair | $\$ 400$ | $\$ 400$ |
| 1 | Teacher Computer (enhanced graphics/memory/storage, download capable) | $\$ 2,500$ | $\$ 2,500$ |
| 1 | Presentation Equipment (e.g., interactive whiteboard (IWB), or other <br> interactive display system with software and accessories) | $\$ 3,000$ | $\$ 3,000$ |
| 1 | Networkable Laser Printer (black/white or color) | $\$ 400$ | $\$ 400$ |
| 1 | Vertical File Cabinet (lockable) | $\$ 330$ | $\$ 330$ |
| 2 | Storage Cabinets (36" $\left.\times 12^{\prime \prime} \times 72^{\prime \prime}\right)$ (lockable) | $\$ 300$ | $\$ 600$ |
| 2 | Bookcases (36" $\left.\times 12^{\prime \prime} \times 42^{\prime \prime}\right)$ | $\$ 115$ | $\$ 230$ |
| 2 | White Boards (4' $\times 8^{\prime}$ ) | $\$ 110$ | $\$ 220$ |
| 1 | Eyewash Station | $\$ 300$ | $\$ 300$ |
| 1 | Fire Extinguisher | $\$ 130$ | $\$ 130$ |
| 1 | Sink with Soap Dispenser | $\$ 100$ | $\$ 100$ |
| 1 | First Aid Kit | $\$ 100$ | $\$ 100$ |

## Program Equipment <br> Total: \$138,500

| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
| :---: | :--- | ---: | ---: |
| 25 | Student Computers (enhanced graphics/memory/speed, download capable) | $\$ 2,500$ | $\$ 62,500$ |
| 1 | Technology Storage/Charging System (optional) | $\$ 2,000$ | $\$ 2,000$ |
| 1 | Computer Numerical Control (CNC) Mill | $\$ 20,000$ | $\$ 20,000$ |
| 7 | Robotic Arm Kits | $\$ 4,500$ | $\$ 31,500$ |
| 7 | Advanced Robotic Kits | $\$ 1,500$ | $\$ 10,500$ |
| 1 | Networkable Large Format Color Plotter | $\$ 1,200$ | $\$ 1,200$ |
| 1 | Storage Cabinet for Sanitized Eye Protection Equipment | $\$ 800$ | $\$ 800$ |
| Varies | 3D Printers and Supplies | $\$ 10,000$ | $\$ 10,000$ |



| OTHER |  | TOTAL: |  |
| :---: | :---: | :---: | :---: |
| QTY | ITEM DESCRIPTION | UNIT | TOTAL |
| 1 | Occupational Safety and Health Administration (OSHA) Instructor Training | $\$ 300$ | $\$ 300$ |


| Category Totals: |  |
| :--- | ---: |
| Classroom Equipment | $\$ 18,310$ |
| Program Equipment | $\$ 138,500$ |
| Instructional Materials | $\$ 8,500$ |
| Instructional Supplies | $\$ 6,285$ |
| Other | $\$ 300$ |
| Estimated Program Total | $\$ 171,895$ |

