

Within Knoxville & surrounding areas, we are fortunate to have suppliers for most of the necessary items. This list will help locate the relevant supplies for your needs.

If you plan to have materials delivered, you must comply with the FAB LAB Materials Delivery Policy. Failure to follow the policy will result in refusal to accept materials.

## **PLYWOOD**

Before you buy: Materials should be flat and stored flat. Plan to purchase good quality plywood that has a hardwood veneer such as birch, maple or oak for example. Building grade plywood, typically used in subfloor and sheathing applications, such as pine plywood or OSB plywood do not work as well in CNC applications. In the past some of these lesser grade plywoods have warped during milling to the extent that the operation needed to be terminated, leaving a partially cut sheet requiring extended finishing through manual means.

### **A&M Supply**

6602 Deane Hill Drive  
Knoxville, TN 37919  
(877) 786-3464

### **Home Depot**

Multiple Locations in the Knoxville Area

### **Lowe's Home Improvement**

Multiple Locations in the Knoxville Area

## **SOLID WOOD**

Before you buy: Ensure that the size of wood can be cut on FAB LAB machinery. All wood must be completely free from metal. Reclaimed/found wood is allowed on a case-by-case basis, be aware that much of this wood is reject. Material with serious deformities will require more work to make flat, square pieces when necessary.

### **Jeffries Wood Works Inc.** [Domestic / exotic hard and soft woods]

8807 Valgro Rd.  
Knoxville, TN 37920  
(865) 573-5876

### **Woodcraft Inc.** [Domestic hard and soft woods - 500 board foot minimum order]

105 South Austin Road  
Morristown, TN 37813  
(423) 581-5413

## **FOAM**

Before you buy: If you plan to CNC route rigid foam, ensure that thickness and size is within allowable machine envelope.

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### **Home Depot** [XPS- Rigid Insulation]

Multiple Locations in the Knoxville Area

### **Lowe's Home Improvement** [XPS - Rigid Insulation]

Multiple Locations in the Knoxville Area

## PLASTICS

Before you buy: Email to ensure that the FAB LAB has proper consumables (such as bits and blades) for your intended type of plastic.

### **Sabic Polymershapes**

4703 Middle Creek Ln  
Knoxville TN 37921  
865 583 8200

### **Snap-vent Plastics** [Various types of plastic sheets, rods and tubes - delivery not offered]

147 West Baxter Avenue  
Knoxville, TN 37917  
(865) 523-6784

### **McMaster Carr** [Large selection, various plastics]

McmasterCarr.com

### **Home Depot** [Acrylic & Polycarb sheet]

Multiple Locations in the Knoxville Area

### **Lowe's Home Improvement** [Acrylic & Polycarb sheet]

Multiple Locations in the Knoxville Area

## METAL

Before you buy: If you plan to weld metal, please ensure that the FAB LAB has the proper welding machines and shielding gas for the type of metal you intend to weld.

If you plan to cut metal using the water jet/shear or bend on the brake, you must know the specific grade and thickness of metal you have. The FAB LAB water jet and Mills cannot cut found/unknown types of metal.

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### **East TN Steel Supply** [large selection, mostly sold in full length, delivery available]

1985 South Economy Road,  
Morristown, TN  
(423)587-3500

### **Metal Supermarket** [large selection, delivery available]

500 Milwaukee Way  
Knoxville TN 37932  
(865) 630-2555

**Triple-S Steel** [Mild steel, stainless steel, some aluminum sold in full-size sheets and full-length sections only, delivery available]

4800 Beverly Road  
Knoxville, Tennessee 37918  
(865) 687-1251

**Frazier Welding & Steel Co. Inc.** [Mild Steel, stainless steel, some aluminum sold in smaller lengths or drops (small offcuts)]

917 Cooper St.  
Knoxville, TN 37917  
(865) 951-7379

**Specialty Metals & Supply** [Billet and unique sections]

2547 Scottish Pike  
Knoxville, TN 37920  
(865) 609-1007

**McMaster Carr** [Large selection, various metals]

McmasterCarr.com

**Fasteners**

**Fastenal** [larger selection than Big Box Stores]

Multiple Locations in the Knoxville Area

**McMaster Carr** [large selection, unique fasteners]

**Home Depot**

Multiple Locations in the Knoxville Area

**Lowe's Home Improvement**

Multiple Locations in the Knoxville Area

**Ace Hardware**

Multiple Locations in the Knoxville Area

**Paint**

**Graining Paint**

600 E Magnolia Ave  
Knoxville, TN 37917

**Home Depot**

Multiple Locations in the Knoxville Area

**Lowe's Home Improvement**

Multiple Locations in the Knoxville Area

**Ace Hardware**

Multiple Locations in the Knoxville Area

**Misc. Items**

**Double Sided Tape**

**Bron Tape**

[www.brontapes.com](http://www.brontapes.com)

**Resin, epoxy & glue**

**Woodcraft**

8023 Kingston Pike  
Knoxville, TN 37919

**Smooth-on Plastics**

[www.Smooth-on.com](http://www.Smooth-on.com)

**West System**

[www.westsystem.com](http://www.westsystem.com)

## **Services**

### **CNC Machining**

Applegate Machine LLC  
2547 Scottish Pike, Knoxville, TN 37920

UT College of Engineering

Tennessee College of Applied Technology  
Paul Cogdill  
1100 Liberty Street Knoxville

### **Metal Fabrication**

#### **Frazier Welding and Steel**

917 Cooper St  
Knoxville, TN 37917  
- General metal Fabrication

#### **Machine Fabrication & Repair**

3122 Middlebrook Pike, Knoxville, TN 37909  
- Manual machining  
- General metal Fabrication

### **Custom Stone and Concrete**

**Paulk & Co**  
**Juston Paulk**

#### **SandBlasting**

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#### **Powder Coating**

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#### **Anodizing**

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