

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 rejecte. 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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Advanced Plastics- High Density Urethane]

127 Sherlake Road, Knoxville 37922
(865) 690-0915

Home Depot & 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

Resin, epoxy & glue

Woodcraft

8023 Kingston Pike
Knoxville, TN 37919

Smooth-on Plastics

www.Smooth-on.com

West System

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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