

## Glassblowing Shop

*Dr. Lammie  
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A glassblowing capability is now a requirement of the Space Medicine Section and will continue to be a requirement in the Engineering Research Building. This facility will enable fabrication of special research apparatus required by the program. Initially, it is planned to utilize present personnel to do glassblowing required. At some future date, the total load on this facility from Space Medicine and other research groups may justify employment of a fulltime glassblower.

The area requirement is 300 square feet, which will not require expansion for future workloads. No special facilities are necessary for machinery foundations, etc. Services required in the shop are:

1. Normal air-conditioning similar to that for office areas.
2. Normal lighting.
3. Natural gas piped to workbench.
4. 230/115 volt 60 cycle A.C. electrical power outlets.
5. Source of compressed air to workbench @25 p.s.i.
6. Tank oxygen and hydrogen with regulators.
7. A kitchen sink and drainboard installation. No special industrial waste drain necessary. Hot and cold water to sink. Sink equipped with rinse-spray hose.

Equipment required for the initial activation is:

1. Glassblowing bench. A maple-top factory bench, 30 in. wide x 10 ft. long, equipped with a  $\frac{1}{2}$  in. transite top.
2. Glass storage cabinet and racks for stocks of glass tubing, rod, and catalog stock items of glass. BKM Catalog No. 32842-C, 5 units at \$53.45 each.

3. Glass cutting saw, powered, Fisher Catalog No. 11-346-5 at \$115.00.
4. Glass grinding table, horizontal, wet abrasive type, approximately \$200.00.
5. Assorted hand tools, total cost approximately \$200.00.

At some future date, should work load or type of fabrication require it, the following items are anticipated:

1. Lab-lathe, for glass working, BKH Catalog No. 32708, at \$860.00.
2. Annealing oven, at approximately \$300.00.

It will be preferable, since the majority of the glassblowing work will originate in the Space Medicine Section, to locate the shop immediately adjacent to this area rather than in the general shop.

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