Purpose:
The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard’s section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. General requirements.
   a. All gas piping to receive color-coded identification labels attached by installing plumbing subcontractor.
   b. Ensure dielectric unions at connections between dissimilar metals
   c. Vacuum Copper pipe or Stainless Steel.
   d. Compressed air Copper pipe, Type L.
      i. Lab Critical spaces to have source of redundant compressed air.
   e. Hydrogen Stainless steel tubing.
   f. Natural Gas Black steel, sch. 40, screwed fittings for below 2 ½”, welded 3” and above.
   g. Nitrogen Copper, Type L.
   h. Lab Air Copper, Type L.
   i. All non-listed gases shall be determined by Rice Project Manager and University EH&S during Schematic Design.
   j. Isolation valves for each lab gas service should be installed at every lab. Labs should have ability to be completely isolated from the rest of the floor.

2. Programming
   a. Architect shall coordinate with Rice Project Manager to gather information regarding intended lab equipment to be purchased (whether by Contractor or by Owner).
   b. The Architect shall provide an equipment plan for review and approval of layout to coordinate utilities infrastructure needed.