Instrumentation Shop

What we do
We design, fabricate, and evaluate electro-mechanical scientific instruments. We provide consultation services to ensure that your project is designed correctly for fabrication, assembly and operation. We approach projects and ideas with an eye on precision, functionality and safety. We repair and/or modify existing devices and fixtures to suit your needs. We are here to assist you with all of your mechanical and electronics needs.

Electronics equipment includes:
- NI Multisim schematic simulations
- NI Ultiboard PCB design & layout
- NI Virtual Instruments
- Matlab computing and simulation
- Soldering/de-soldering/rework stations
- Digital oscilloscopes and spectrum analyzer
- Function generators
- Bench-top power supplies
- Digital microscope
- Wide range of active and passive analog components

Shop machinery includes:
- Solidworks 3D CAD Modeling
- Mastercam X6
- 3 Axis CNC mill
- 9"x 42" Vertical manual mill
- Tool-room precision lathe
- Vertical and horizontal band saw
- Bench grinder and sander
- 8" Buffing wheel
- 6"x 48" Belt & 12" disc finishing machine
- Abrasive blast cabinet
- 230v Tig Welder
- Bar bender, arbor press, and bench-top drill press
- Assorted hand and power tools

Rates
- General fabrication, assembly & testing $65/hr
- Engineering consultation & design $75/hr (no charge for first 30min)
- Express fabrication, assembly & testing $85/hr
- Modification of externally fabricated parts $80/hr
- Student/Staff shop training (per session) $80
- Student/Staff shop use $30/hr

Contact Us

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<thead>
<tr>
<th>Shop Engineer</th>
<th>Instrument Maker</th>
<th>Shop Manager</th>
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Please contact us or visit our website for more information, to schedule a consultation appointment or to submit a work estimation request.

http://www.ric.org/research/ricshop/