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Purdue Research Machining Services

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Research Machining Services (RMS; formerly the Central Machine Shop) is a precision, full-service, “job-shop” which moved into a brand new, climate-controlled ~8,500SF facility in January 2012. The shop designs, machines and/or fabricates one-of-a-kind components and modifies existing equipment mainly for the Purdue research community. The shop makes parts from steel, stainless steel, aluminum, high-performance metals and all kinds of plastics. High precision machining is done on both standard & CNC equipment. Services include: turning, milling, drilling, grinding, shearing, bending, rolling, punching, pressing, sawing, oxy/acetylene cutting, plasma cutting, and all types of welding including MIG, TIG, electro and gas. The shop also offers consulting services on design and materials. Raw materials are available to other campus shops and students from RMS’s material area. Specialized materials and outside services such as anodizing, plating and heat treating are also available through the shop. Major shop equipment includes: CNC mill, CNC lathe, multiple standard mills with digital readouts and 2-axis CNC controls, multiple standard lathes with digital readouts & capacities up to 24” diameter and 10’ in length, surface grinders, drill presses, mechanical shear with up to ½” thick/8’ wide capacity, sheet metal & tubing bending equipment, sheet metal rolling equipment, 150-ton press, ironworker, welding equipment, sandblasters, comparator, surfaces plates and precision gaging.

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