

**Wildcat Discovery Technologies** is a start-up company focused on the discovery of advanced materials for energy and clean technology applications. The company has developed a high-throughput synthesis and screening platform that accelerates the discovery process and allows rapid evaluation of complex materials. Wildcat has programs targeting materials for hydrogen storage, with additional programs under evaluation.

**High Throughput Approach:** Wildcat's proprietary high-throughput synthesis platform enables the creation of a wide range of classes of materials, with highly controlled mixing, sub-micron particle sizes, and rapid scalability. This technique produces materials in "bulk" form (grams / reaction) thus avoiding the limitations of typical high-throughput synthetic techniques (i.e. thin film, sol gel). The milling synthesis is part of a fully integrated platform, with custom informatics for library design and data analysis, along with automated reaction setup and assay. Together, Wildcat's platform is able to synthesize and screen more compounds in a day than most labs do in a year, and do so day after day.

**Wildcat's Hydrogen Storage Program:** Solid-matrix hydrogen storage materials hold considerable promise to help enable hydrogen as a fuel for transportation, but the complexity of these multi-component and multi-phase materials makes advancement difficult and slow. Wildcat's high-throughput platform greatly accelerates the discovery of these complex materials, increasing the number of samples tested by orders of magnitude. Wildcat's proprietary workflow allows the synthesis of a wide range of pertinent material types, from intermetallics to complex hydrides, with control of critical variables including particle size and catalyst dispersion. To achieve high-throughput, Wildcat has developed complementary multichannel gas sorption equipment eliminating the need for sample transfer and allowing direct evaluation of sorption and desorption over multiple cycles.

**About the Company:** Wildcat is a privately held company located in San Diego, CA which began operations in November 2006. The company founder's and key employee's bring extraordinary high-throughput and bulk materials expertise:

- Prof. Peter Schultz, Wildcat Founder; Institute Director at Genomics Institute of Novartis Research Foundation (GNF); Professor at The Scripps Research Institute; Founder of Symyx, Affymax, Syrrx, Kalypsys, Phenomix, Ambrx, Ilypsa
- Robert Downs, Wildcat Founder; Executive Director of Engineering; GNF; Former Engineering Director at General Motor's Saturn Division; Started GM's first hybrid electric vehicle program.
- Dr. Donald Murphy, Wildcat Chief Scientific Officer; Former Director of Applied Materials Research Department, Bell Laboratories

The company employs 30 scientists and engineers, has several engineering consultants with specialized experience in high-throughput automation, and has a world class scientific advisory board. Wildcat occupies a 14,000 sqft facility with a wet chemistry lab, complementary analytical equipment, and full CNC machine shop for rapid technology development.

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