

Business profile

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M4 Sciences Corp. is developing and implementing techniques for the manufacture of ultra-precise components and advanced materials for the biomedical, aerospace and military markets. These techniques are expected to bridge the gap between nano-manufacturing and macro-manufacturing, making it one of the most exciting and challenging frontiers in the field of advanced manufacturing.



“M4” (micro/meso mechanical manufacturing) refers to the production of three-dimensional products ranging in size from tens of micrometers to a few millimeters, in a variety of materials. In addition, the company shows promise in the delivery of advanced product designs that require ultra-precise, highly accurate, miniaturized components.

M4 Sciences is a spin-off from research at Purdue University Discovery Park’s Center for Advanced Manufacturing. The corporation is managed by a pair of founding principal investors who share a passion for micro-scale manufacturing. Together, they have more than 15 years of university education and more than three decades of business experience.

M4 Sciences’ mission is to develop and apply micro/meso scale process technology for precision component machining and the production of nanostructured materials. The company is developing a new machining technology called modulation-assisted machining (MAM). MAM offers potential for improving efficiency of precision machining processes, and the technology has demonstrated the capability for producing nanostructured particulate metals and alloys by microscale machining.

As a high-tech, manufacturing startup, M4 Sciences has benefited from its affiliation with Purdue Research Park through access to funding opportunities and other technology-based firms in the park. The company plans to occupy manufacturing space within the park.



Facts & Figures

ESTABLISHED: 2006 – Founded by James B. Mann, a Purdue alumnus, and Brian Gootee
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