

NASA Game Changing Development Program Manufacturing Innovation Project



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NASA GAME CHANGING DEVELOPMENT PROGRAM MANUFACTURING INNOVATION PROJECT



BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This presentation examines the new NASA Manufacturing Innovation Project. The project is a part of the Game Changing Development Program which is one element of the Space Technology Programs Managed by Office of the Chief Technologist. The project includes innovative technologies in model-based manufacturing, digital additive manufacturing, and other next generation manufacturing tools. The project is also coupled with the larger federal initiatives in this area including the National Digital Engineering and Manufacturing Initiative and the Advanced Manufacturing Partnership. In addition to NASA, other interagency partners include the Department of Defense, Department of Commerce, NIST, Department of Energy, and the National Science Foundation. The development of game-changing manufacturing technologies are critical for NASA's mission of exploration, strengthening America's manufacturing competitiveness, and are highly related to current challenges in defense manufacturing activities. There is strong consensus across industry, academia, and government that the future competitiveness of U. S. industry will be determined, in large part, by a technologically advanced manufacturing sector. This presentation highlights the prospectus of next generation manufacturing technologies to the challenges faced NASA and by the Department of Defense. The project focuses on maturing innovative high payoff model-based manufacturing technologies that may lead to entirely new approaches for a broad array of future NASA missions and solutions to significant national needs. Digital manufacturing and computer-integrated manufacturing virtually guarantee advantages in quality, speed, and cost and offer many long-term benefits across the entire product lifecycle. This paper addresses key enablers and emerging strategies in areas such as: Current government initiatives, Model-based manufacturing, and Additive manufacturing. This item ships from La Vergne, TN. Paperback.



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