

1. Record Nr.	UNINA9910960834203321
Titolo	The impact of academic research on industrial performance // National Academy of Engineering of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2003
ISBN	9786610209163 9780309166966 0309166969 9781280209161 128020916X 9780309526029 0309526027
Edizione	[1st ed.]
Descrizione fisica	1 online resource (265 p.)
Disciplina	338.060973
Soggetti	Industrial efficiency - United States Academic-industrial collaboration - United States Universities and colleges - United States - Graduate work Computer networks - Research - United States Medical instruments and apparatus industry - Research - United States Aerospace industries - Research - United States Financial services industry - Research - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"This study was supported by Grant No. 97-3-4 between the National Academy of Sciences and the Alfred P. Sloan Foundation and by the National Academy of Engineering"--T.p. verso.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Front Matter""; ""Preface""; ""Acknowledgments""; ""Contents""; ""Executive Summary""; ""1 Introduction""; ""2 Report of the Panel on the Network Systems and Communications Industry""; ""3 Report of the Panel on the Medical Devices and Equipment Industry""; ""4 Report of the Panel on the Aerospace Industry""; ""5 Report of the Panel on the Transportation, Distribution, and Logistics Services Industry""; ""6 Report of the Panel on the Financial Services Industry""; ""7 The Contributions and Impact of Academic Research""; ""8 Challenges for

the Future"; "9 Conclusions and Recommendations"

"Biographical Information"

---

## Sommario/riassunto

Drawing on the findings of sector-specific workshops, e-mail surveys, research literature, expert testimony, and committee and panel members (TM) expertise, this National Academy of Engineering study assesses the qualitative impact of academic research on five industries "network systems and communications; medical devices and equipment; aerospace; transportation, distribution, and logistics services; and financial services. The book documents the range and significance of academic research contributions to the five industries "comparing the importance of different types of contributions, the multi- and interdisciplinary nature of these contributions, and the multiple vectors by which academic research is linked to each industry. The book calls for action to address six cross-cutting challenges to university-industry interactions: the growing disciplinary and time-horizon-related imbalances in federal R&D funding, barriers to university-industry interaction in service industries, the critical role of academic research in the advancement of information technology, the role of academic research in the regulation of industry, the impact of technology transfer activities on core university research and education missions, and the search for new pathways and mechanisms to enhance the contributions of academic research to industry. The book also includes findings and recommendations specific to each industry.

---