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MIT and Industry

Since its charter, MIT has had a tradition of working closely with industry. Industry has long provided philanthropic support for the educational mission at MIT, including gifts that have established professorships, undergraduate scholarships and graduate fellowships. The exchange of people and ideas between the Institute and the business community has inspired curricular innovations in a range of disciplines. These innovations have in turn helped generations of MIT graduates make major contributions in industry, government and academia; have led to a stream of research advances; and have enabled a large number of beneficial products to come to the marketplace.

Key Elements

Key elements of what MIT provides to industry include:

Sponsored Research

Industry sponsors more research at MIT than at any other university. Some 400 industrial organizations supported about \$75 million worth of research last year. In many instances, companies join together in consortia to support research on campus.

Entrepreneurship

MIT graduates, faculty and staff have founded 4,000 firms which, in 1994 alone, employed at least 1.1 million people and generated \$232 billion of world sales. MIT-related jobs are in every state of the nation, with 160,000 to 10,000 jobs in these states: California (160,000), Massachusetts, Texas, New Jersey, Pennsylvania, Ohio, Colorado, Florida, Virginia, New York, Georgia, Kansas, Iowa, Illinois, Wisconsin, Washington, Connecticut and Oregon (10,000). See below for summary, Page 5-2.

Licensing Inventions

The Institute typically receives over 100 patents a year, more than any other single U.S. university. MIT's Technology Licensing Office works with industry in arranging for these inventions to be licensed and introduced into the marketplace. Since 1987 MIT has granted over 500 licenses, and helped spin off scores of companies.

MIT Commission on Industrial Productivity

In 1989, this commission produced a highly acclaimed book, *Made in America: Regaining the Productive Edge*. This report was the result of a two-year study of the nation's decline in industrial production, by 16 senior faculty. This widely cited analysis also spawned three additional country studies in Sweden, France and Japan with results released in September, 1993.

Leaders for Manufacturing Program

This program, started in 1988, is an innovative educational/research partnership of MIT with fifteen leading U.S. manufacturing companies to help the U.S. compete more effectively in a global marketplace. Its goals are to discover and codify guiding principles for world-class manufacturing,

educate future leaders for manufacturing firms, and improve manufacturing education, research, and practice through an active industrial-academic collaboration. Through the program, students earn a masters in both management and in engineering while they serve an internship on the manufacturing floor of one of the industry sponsors.

The companies principally involved in this program are:

AlliedSignal Corporation
Aluminum Company of America
The Boeing Company
Chrysler Corporation
Digital Equipment Corporation
Eastman Kodak Company
Ford Motor Company
General Motors Corporation
Hewlett-Packard Company
Inland Steel Industries
Intel Corporation
Motorola, Inc.
Polaroid Corporation
Tenneco Corporation
United Technologies Corporation

MIT Industrial Performance Center

The MIT Industrial Performance Center is dedicated to the interdisciplinary study of industrial performance in the U.S. and other advanced economies. With the participation of faculty and students from all five schools of MIT, the Center today serves as a listening post on industry, monitoring patterns of organizational and technological best practice. Center researchers are conducting research in four areas: technology and the American worker; new organizational strategies for R&D, design and product development; globalization; and performance measurement. The Center is also conducting the "Made By Hong Kong" project on the future of Hong Kong industry.

Industrial Liaison Program

Established in 1948, the ILP enables its more than 200 member companies to draw on MIT's expertise to help solve problems. The companies, in turn, help faculty members stay abreast of developments in industry. The program fosters company involvement in MIT's research and educational activities.

MIT Japan Program

The MIT Japan program was established in 1981 to create the first generation of American scientists, engineers and managers who can speak Japanese and work as professionals in their respective fields in Japan. The program is sponsored by a consortium of sixteen U.S.-based multinational corporations, foundations, and the U.S. government. The program reaches out to industry through its bi-monthly MIT Japan Science and Technology Newsletter, conferences, satellite broadcasts, and working papers on topics related to Japan industry, technology, and public policy.