

# STATE UNIVERSITY OF NEW YORK AT **Stony Brook**

## **ABOUT THE UNIVERSITY**

With a mandate for teaching, research and public service, the State University of New York at Stony Brook has an inherent, expanding interest in Long Island regional development. Extensive expertise and resources are available to Long Island's business and industry through the University, which is located on 1000 wooded acres in Stony Brook on Long Island's north shore, about an hour's drive east of Manhattan and an equal distance from the Hamptons. Established two decades ago as New York's comprehensive state university center for the metropolitan area, Stony Brook already has grown to become one of the nation's major public universities. Internationally recognized faculty presently offer programs from the undergraduate through the doctoral level for 16,000 students in about 100 academic departments and interdisciplinary programs, in the arts and sciences, engineering and applied sciences, urban and policy sciences, and in the health sciences, including medicine, dental medicine, nursing, allied health professions and social welfare.

Stony Brook's business and industrial services particularly involve 3 campus units:

### **Marine Sciences Research Center**

The Marine Sciences Research Center (MSRC) is working to resolve the problems of Long Island's coastal marine environment, to ensure the continued multi-use character of this valuable recreational, aesthetic, commercial and industrial resource. The MSRC aims at making scientific research count by seeking rational solutions to complex environmental problems—solutions that will result in predictable and acceptable changes to the environment at acceptable economic cost. Conservation and proper developmental utilization of Long Island's surrounding marine environment are prime concerns of the Center. The MSRC's faculty, currently is engaged in active, funded research on virtually every major problem and aspect of our coastal waters, harbors, bays, estuaries, lagoons, wetlands and barrier islands. The Center, offering graduate studies leading to the M.S. and Ph.D. degrees, prepares students for leadership positions in coastal zone management and environmental protection and resource development, and for careers in coastal oceanography. The Center attracts well over three dollars in Federal funding for every state budget dollar it receives. At present, sponsored projects of direct importance to commerce and industry include work on dredged material management plans for Long Island Sound and New York Harbor; sand and gravel mining management plans for the New York Harbor area, development of creative uses for stabilized coal wastes in the marine environment, studies of Great South Bay shell fishing and other fishery conditions in area coastal waters, evaluation of the biological effects of PCB's and other persistent pollutants on the marine environment and studies involving the location of sewage treatment plants and establishment of appropriate levels of sewage treatment necessary to maintain and, where desirable, improve existing water quality.

### **W. Averell Harriman College for Urban and Policy Sciences**

With efficient, sophisticated governmental operations becoming increasingly essential for business development, Stony Brook's W. Averell Harriman College for Urban and Policy Sciences represents a unique resource for the Long Island region. The College carries on research and teaching programs aimed at improved public service. Increasing the productivity of government agencies—better work at lower costs—requires the ability to integrate the latest developments in a number of areas: applied mathematics, computer science, the physical and behavioral sciences, and others. Since its establishment in 1975, the College has become a national leader in significant, pragmatic education and research for the public sector. The College prepares students for public service careers through a curriculum emphasizing quantitative and analytic approaches to devising, evaluating and managing government policies and programs. Students at the College serve as summer interns and part-time employees for organizations and groups requiring assistance in statistical analysis, mathematical modeling, computer simulations, and organizational planning. Their work includes field research with the College's faculty in major problem-solving projects for government units ranging from Long Island villages and towns through New York City, state and Federal agencies. In addition to government agencies, Harriman College research focuses on those areas of the private sector that do business with government, particularly in the fields of energy, transportation, health, financial management, and human services. Faculty research currently underway includes projects in energy modeling, policy and systems, finance, management information systems, public utilities management, planning theory, urban economics, public finance, technological innovation, the organization of public services and the regional impact of Federal tax policies.

### **Center for Industrial Cooperation**

The Center for Industrial Cooperation (CIC) was established as a public service of the State University at Stony Brook. The Center operates on the premise that Long Island companies should have full, easy access to all assistance the University can offer in the interest of supporting the optimal technological development which is vital to Long Island's economic future. The Center's services may be useful in technical matters, business, labor relations, and management areas in a range of fields including energy, ecology, plant safety, the labor market, taxation and finance, product safety, industrial equipment, and virtually any other fields where business or industry needs help with problem-solving. Proper screening of problems, fast analysis and feedback are used to help resolve difficult technical, economic and managerial roadblocks. The Center, a part of Stony Brook's College of Engineering and Applied Sciences, offers diagnostic consulting on technical or managerial problems, consulting on computer software, specialized technical briefings, access to unique lab equipment, assisted access to "on-line" information searching, and other services. The Center's major goal is one of transferring the University's technical expertise into practical usefulness and increased productivity for Long Island's business and industry while at the same time enhancing the teaching and research programs within the University.