



RESOLUTION

establishing

THE INSTITUTE FOR INDUSTRIAL AND ENGINEERING TECHNOLOGY
THE CENTER FOR TECHNICAL TRAINING
THE MANUFACTURING APPLICATIONS CENTER
THE PROCUREMENT AND TECHNICAL ASSISTANCE CENTER
THE CENTER FOR FLEXIBLE MANUFACTURING NETWORKS

at

CENTRAL CONNECTICUT STATE UNIVERSITY

July 23, 1993

- WHEREAS, The School of Technology at Central Connecticut State University received state appropriations in 1989 as a Center of Excellence for the application of technology in industry and has subsequently received grants from the State Department of Economic Development to support the further dissemination of knowledge in advanced manufacturing techniques, and
- WHEREAS, The Center for Industrial and Engineering Technology, a public service unit of the School of Technology, has begun the task of disseminating technical knowledge to the manufacturing community but is in need of reorganization and expansion as the demands for service have outstripped its capabilities, and
- WHEREAS, The academic programs in Technology at Central continue to benefit from having faculty and advanced students of the School of Technology work with persons in industry and public agencies on the application of technological principles to real situations, therefore be it
- RESOLVED, That the Resolution establishing the Center for Industrial and Engineering Technology at Central Connecticut State University, April 7, 1989, is hereby repealed, and be it
- RESOLVED, That there is established at Central Connecticut State University an Institute for Industrial and Engineering Technology and that there is established within the Institute the Center for Technical Training, the Manufacturing Applications Center, the Procurement and Technical Assistance Center, and the Center for Flexible Manufacturing Networks, and the purpose of the Institute and the Centers within it shall be to disseminate technical information and instructional services to businesses and industries so as to enhance and stimulate economic development, and be it



RESOLVED, That there shall be an Executive Director of the Institute for Industrial and Engineering Technology to whom the heads of the Centers within the Institute shall report, and the Executive Director of the Institute shall report to the Dean of the School of Technology, and there may be such other personnel within the Institute and its constituent Centers as may be authorized according to Connecticut State University procedures, and be it

RESOLVED, That the Institute and its constituent Centers may receive payment for its services and may seek and receive grants and contracts and other funding providing that all such income is deposited in University accounts established for the Institute and its Centers and expended exclusively for the purposes of the Institute and its Centers, and be it

RESOLVED, That the operation of the Institute and its Centers shall be evaluated by the President of Central Connecticut State University within five years of the date of this resolution for its contribution to the economic growth and well being of the state and for its ability to support and enrich the academic programs of the School of Technology, and the result of this evaluation shall be shared with the President of Connecticut State University and the Board of Trustees of Connecticut State University, and be it

RESOLVED, That the Institute for Industrial and Engineering Technology and its constituent Centers at Central Connecticut State University shall go out of existence on December 31, 1998, unless the Board of Trustees takes specific action to the contrary.

A Certified True Copy


Dallas K. Beal
President



Central Connecticut State University

A Campus of the Connecticut State University

1615 Stanley Street P.O.Box 4010 • New Britain, CT 06050 - 4010

RECEIVED
TO:
JUL 14 1993
PRESIDENT'S OFFICE
CENTRAL
STATE UNIVERSITY
NEW BRITAIN, CT

Dr John Shumaker, President

Dr. John R. Wright, Dean
School of Technology

DATE: July 13, 1993

RE: Institute For Industrial and Engineering Technology

Dr Beal has raised several questions concerning the proposed Institute for Industrial and Engineering Technology; how it would be structured, who will be involved, how it will become self-sustaining, what relationship it will have with the academic programs in the School of Technology, and what economic development impact it will have in the private sector, including competition with other vendors of similar services. Below is a response to those questions and additional information that may be helpful in the pending discussions with Dr Beal and the Board of Trustees.

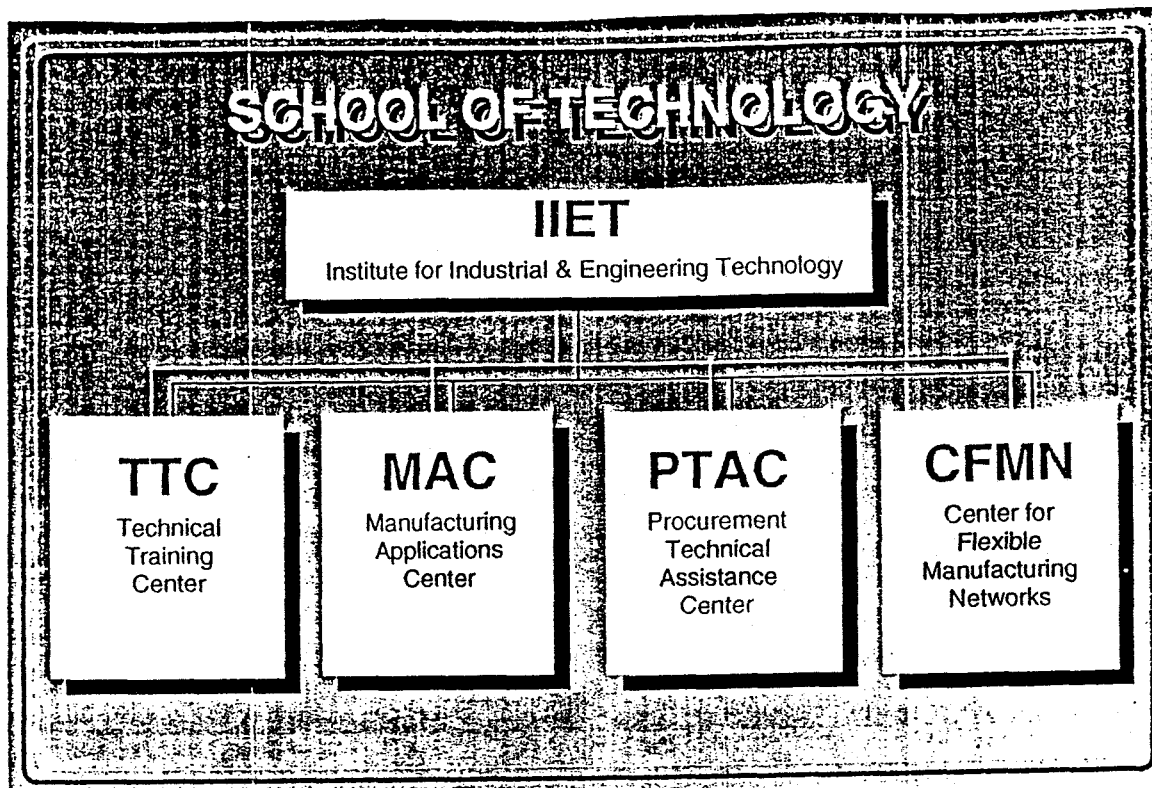
INSTITUTE

Descriptions of the Institute and its centers:

The Institute for Industrial and Engineering Technology is modeled after the institute structure used by the College of Engineering at the University of Connecticut. The new Institute will be an outreach function of the School of Technology to provide our business and industrial community with economic development services through four centers that are initially funded with grants from state and federal sources. These centers (see organizational chart) will each have a director and staff that will be managed by Dr Edward Rybczyk who will be reclassified as Executive Director of the Institute and report directly to Dr John R. Wright, Dean of the School of Technology. Dr Rybczyk's salary is funded by CCSU in the general fund as part of a center of excellence in technology initiative.



An Equal
Opportunity



It is anticipated that the Institute will serve as the managing and coordinating structure for the four centers, provide publicity and public relations support, seek additional funding resources to support the centers, and market the resources of the Institute to Connecticut's business and industry on a statewide basis.

The **Technical Training Center (TTI)** will replace the existing CIET operation which has been primarily focused on technical training during the past seven years. This center works with over 200 companies and the Connecticut Department of Labor to assist companies in technical updating ranging from quality assurance to engineering design and analysis. Under the proposed Institute, this center will have a director and two university assistants who will continue to focus on technical training on a fee-for services basis.

The **Manufacturing Applications Center (MAC)** is a grant funded project for three million dollars over two years by the Connecticut Department of Economic Development. This center is designed to help small manufacturers make the transition to advanced technology in their manufacturing processes. Included in the grant are funds to purchase a building, necessary equipment needed to provide support for technology transfer activities, and salaries for a director, two technicians, and secretarial services.

The primary focus of the MAC will be to assist small companies in computerizing manufacturing operations via applications software, machine retro-fitting and fixturing, automation techniques, and production control. The MAC will be networked with the Precision Manufacturing Center at U-Conn, United Technologies Research Center, and the federal NIST laboratory in Troy, N.Y. These centers will provide MAC free of charge with the latest field tested technologies that are ready for application and MAC will make such technology available to its clients through additional grants and/or a fee-for-services format. It is anticipated that the low overhead of MAC will allow participation of small manufacturers who traditionally could not afford the rates of private sector research laboratories.

The **Center for Flexible Manufacturing Networks (CFMN)** is a grant funded project for one million dollars over two years by the Connecticut Department of Economic Development. This center is designed to help link small manufacturers together so that they can operate big when it is profitable and operate small when it is profitable. Networks allow training, purchasing, marketing, and manufacturing opportunities that increase the capability of the small manufacturer in the marketplace. During the grant period ten networks will be established that will include photonics, aerospace precision manufacturing, biotechnology, printing and graphic design, metal forging and diecasting, composite materials, alternative energy transportation, manufacturing applications software, and a special minority owned consortium of metal machining companies.

Network brokers (a sub-contract with Connecticut Technology Associates) will conduct the fieldwork and establish the networks. Once the networks are established the Director and his/her university assistant will be supported by membership fees from the networks for coordination services on a long term basis. Any additional networks will be grant funded or paid for by the candidate companies including user fees.

The **Procurement and Technical Assistance Center (PTAC)** is a grant funded project for \$135,000 each year for two years to establish a service to assist small and medium sized companies in the bidding process for government procurement. This center is a part of a Connecticut consortium made up of SEATECH, SCIENCE PARK, and CCSU to be funded (still pending) by the Department of Defense and the Connecticut Department of Economic Development. The funding is considered solid because Connecticut decided to submit only one coordinated proposal to DOD which was an invited proposal by DOD.

A Director and two university assistants, one of which will be a procurement specialist, will receive computerized data on bidding opportunities that will be posted daily from the Business Commerce Daily and other sources to make abstracts available to area business and industry. If interested, clients will come to the center to receive proposal assistance and detailed information about the procurement process. Working with the other centers in the Institute, companies can also contract for training assistance and technical qualifying in order to qualify for vendor status.

It is anticipated that this center will become self-sustaining through membership fees by companies that want procurement information on a daily basis within two years from the start of the project.

FUNDING

The external funding that we actually have in hand is as follows:

TTC.....\$42,000
CFMN.....\$1,000,000

The external funding that has been approved and will be here by Sept. 1st is as follows:

MAC.....\$3,000,000

The external funding still pending is as follows:

PTAC.....\$135,000

The external funding from contracts with industry for AY 1993-94 is as follows:

TTC*.....\$340,000

* includes a \$150,000 grant contract from the Dept.of Labor

TOTALS:

in hand.....\$1,042,000 Pending.....\$3,475,000

The Executive Director's salary will be supported by CCSU's internal budget and is an existing full time line for the School of Technology. All other costs of the Institute will be covered by grants and/or fees-for-services.

PERSONNEL

The Executive Director is the only hard money position for the Institute and he is a member of AFSME. The four new Directors will also become members of AFSME on yearly contracts subject to available funding sources. Technicians (2) will be members of the maintenance union and be given one year contracts subject to available funding sources. All other personnel will be given half-time university assistantships.

Faculty and students who contract for services with the Institute are hired through Personal Service Agreements (PSA) to conduct applied research, consulting, and training. Students who use the Institute for senior or graduate projects are not paid for the projects they conduct, but are awarded academic credit.

The Institute will not have any academic appointments. No School of Technology faculty are awarded re-assigned time for institute activities.

ACADEMIC RELATIONSHIP

The School of Technology has enjoyed its recognition as a Connecticut Center of Excellence in Technology since 1989. Its academic programs have been enhanced by the activities of CIET and the ability of its faculty to work directly with industry. Faculty have conducted research, provided training, and developed joint projects involving students; creating opportunities that an academic school cannot simulate in the classroom.

Additionally, industry has appreciated CIET's assistance and has provided grants and gifts that make funding the School of Technology a little less expensive than it might otherwise be. They have also provided scholarships for SOT students and internships on a regular basis including overseas travel to China this past spring and a planned trip to Poland next year.

This past year the Department of Economic Development and the Department of Labor have recognized the quality and importance of CIET's work by awarding us several grants to establish an Institute that will provide even more services than CIET. The new Institute will also provide more opportunities for students and faculty to experience the real world in the laboratory of industry. It will also make CCSU a good citizen by supporting New Britain with a manufacturing center that will be the benchmark of the State's commitment to its manufacturing community.

Many engineering and technology schools talk about their relationship with industry as part of their ABET accreditation process. CCSU received high grades from TAC/ABET and NAIT for its real commitment to partnering with industry and for involving both faculty and students in the process. All this is possible because of the outreach function of the School of Technology. The proposed Institute will enhance and expand the aforementioned opportunities tenfold.

FACILITY

The School of Technology has 42,000 sq ft of floor space divided into 14 diverse laboratories. With over 1,000 majors, these facilities are used extensively. But academic equipment cannot be experimented with or tied up for applied research purposes because students need access to it for classwork. Even scheduling industrial training must take a backseat to regularly scheduled academic classes causing us to turn down possible training contracts with companies. While we have managed to make it work with CIET, a larger operation just simply won't fit into Copernicus Hall.

Therefore, when we responded to the RFP for the Manufacturing Applications Center we decided to request monies to purchase a facility to house the operation. This was done for two reasons, (1) because of space limitations on campus and (2) to cut overhead costs of leasing a building thereby allowing us to keep the Institute's service rate low and affordable by small manufacturers.

The proposed facility would have a minimum of 40,000 sq. ft. of which 20,000 sq. ft. will be devoted to the applications laboratory. The additional space will be used for offices, meetings, and seminar rooms to conduct business and training. Donations from industry and equipment monies in the grant will provide a state-of-the-art manufacturing center that can be responsive to small business needs.

It is anticipated that the Institute will operate out of a mobile home on campus starting on Sept.1, 1993 until a suitable facility can be located and acquired. In the meantime, we will use the School of Technology academic facilities as best we can.

STATUTORY BASIS FOR PUBLIC SERVICE WORK

I know of no statutory basis for a university to do public service work. In our mission statement, we aspire to be a Metropolitan university that considers service to community to be a priority. The institute would certainly meet such criteria and is the School of Technology's primary vehicle for providing service to the industrial community.

In the case of MAC, the legislation is quite clear in naming a CSU university with a technology deployment mission to receive three million dollars to establish a manufacturing applications center. Other universities such as U-Conn, have been using institutes for a number of years to conduct research and provide industry with such services.

Other programs in Arts and Sciences, Business, and Education do provide services to our community through contracts and grants. If not statutory in nature, past practice has been to recognize those professors who have given service to the university and its community at large through promotion and tenure...further indication of its importance to a university.

In terms of conflicts with the private sector, there is no private sector business in the technology transfer area that I am aware of. The state of Connecticut has provided these grants to stimulate the economy and help retain its manufacturing base. Because the RFP process is competitive, private sector businesses do have a chance to bid on the projects. We competed in the process and won the awards to do the work. I see no conflict of interest for a public university to do economic development work for the state of Connecticut if it has competed fairly for the contract.

I hope I have been able to answer Dr Beal's questions with some sense of clarity and organization. The Institute is the next level of maturation for the School of Technology. It is a vehicle that will serve us well as we continue to become the finest School of Technology in the Northeast.

cc Dr Edward Rybczyk
Dr Karen Beyard

WORKSHEET FOR INSTITUTE FOR INDUSTRIAL AND ENGINEERING TECH PROPOSAL

1. Personnel to be assigned to the Institute and Centers

Please indicate personnel contemplated for each unit as to full-time/part-time, title or function (e.g. director or clerical or ?) bargaining unit

Executive Director of Institute, AFSME VII full-time
 Director, TTI, AFSME V, full-time
 Director, MAC, AFSME V, full-time
 Director, CFMN, AFSME V, full-time
 Director, PTAC, AFSME V, full-time
 Technician (2), Maintenance, full-time
 University Assistants (7) N/A, part-time

2. Projected Financial Data for each unit

| Revenues | FY 94 | FY 95 | FY 96 | FY 97 | FY 98 |
|-------------------|------------------|------------------|----------------|------------------|------------------|
| Grants | 3,135,636 | 1,124,728 | 0 | 0 | 0 |
| Fees for Services | 340,000 | 490,000 | 940,000 | 1,140,000 | 1,360,000 |
| Other (identify) | | | | | |
| Total | <u>3,475,636</u> | <u>1,614,728</u> | <u>940,000</u> | <u>1,140,000</u> | <u>1,360,000</u> |

Expenditures

| | | | | | |
|-------------------|-------------------|------------------|----------------|----------------|----------------|
| Personal Services | 696,000 | 720,800 | 756,800 | 794,800 | 834,800 |
| Equipment | 652,000 | 0 | 0 | 0 | 0 |
| Other Expenses | <u>1,065,000</u> | <u>316,000</u> | <u>120,000</u> | <u>120,000</u> | <u>140,000</u> |
| Total | <u>2,413,000*</u> | <u>1,036,800</u> | <u>876,800</u> | <u>914,800</u> | <u>974,800</u> |

| | | | | | |
|------------------|-----------|---------|--------|---------|---------|
| Surplus Revenues | 1,062,636 | 577,928 | 63,200 | 225,200 | 385,200 |
|------------------|-----------|---------|--------|---------|---------|

*Does not include \$1,000,000 to purchase building

- NOTE:** (1) Does not assume any grant or gift support after 1995
 (2) Surplus revenues will be used to purchase equipment for the Institute and School of Technology
 (3) Personnel salary raises based on 5% per year
 (4) Personnel costs include 48% for benefits
 (5) Personnel costs do not include salary of Executive Director (General Fund position)

filed w/ memo

**DEPARTMENT OF ECONOMIC DEVELOPMENT
STATE OF CONNECTICUT
(An Equal Opportunity Employer)
CERTIFIED RESOLUTION OF THE LEGISLATIVE BODY
OF AN ORGANIZATION OR MUNICIPALITY**

Certified a true copy of a resolution duly adopted by the
Board of Trustees on behalf of Central Connecticut State University

(Name of Applicant, Organization or Municipality) 23
at a meeting of its Board of Trustees on July 17, 1993,
(Legislative or Governing Body) (Date)
and which has not been rescinded or modified in any way whatsoever.
10-7-94
(Date) Lawrence D. McHugh (Signature and Title of Official) Secretary

S E A L

WHEREAS, pursuant to Chapter 588 of the Connecticut General Statutes, the Connecticut Department of Economic Development is authorized to extend financial assistance for economic development projects; and WHEREAS, it is desirable and in the public interest that the Institute for Industrial and Engineering Technology

(Applicant)

make an application to the State for \$ 1,000,000.00 in order to undertake the Flexible Manufacturing Network Phase 1 and to execute an Assistance Agreement.
(Name and Phase of Project)

NOW, THEREFORE, BE IT RESOLVED BY THE Board of Trustees
(Legislative or Governing Body)

1. That it is cognizant of the conditions and prerequisites for State assistance imposed by Chapter 588 of the Connecticut General Statutes.

2. That the filing of an application for State financial assistance by Institute for Industrial and Engineering Technology in an amount not to exceed \$ 1,000,000.00

(Applicant)

is hereby approved and that the _____
(Title and Name of Authorized Official)

is directed to execute and file such application with the Connecticut Department of Economic Development, to provide such additional information, to execute such other documents as may be required, to execute an Assistance Agreement with the State of Connecticut for State financial assistance if such an agreement is offered, to execute any amendments, rescissions, and revisions thereto, and to act as the authorized representative of Institute for Industrial and Engineering Technology.

(Name of Applicant)

MEMORANDUM

TO: Stephen O. Mitchell
Vice President
Finance and Administration
Central Connecticut State University
1615 Stanley Street, New Britain

FROM: Bernard F. McGovern, Jr.
Assistant Attorney General
110 Sherman Street, Hartford

RE: Contract Between Economic Development Department
and CCSU, School of Technology

DATE: August 5, 1994




I have received from you the above contract and certificate of counsel which I am supposed to sign.

I cannot determine from the contract what CCSU is required to do thereunder. The substantive terms of the agreement are apparently in the grant application.

Please have someone send me a memo explaining what CCSU is agreeing to do here.

Also the contractor should be the board of trustees of the CSU system on behalf of CCSU, and the certified resolution should state that it is adopted by the board of trustees on behalf of CCSU and should be signed by the secretary of the board of trustees.

If you have any questions, please give me a call.


Bernard F. McGovern, Jr.
Assistant Attorney General

BFM:sad

To: Stephen O. Mitchell
VP Finance & Administration

From: Jim Bruner, IIET

Subject: Contract Between Economic Development and CCSU

The certificate of counsel is for our existing contract with Connecticut Department of Economic Development and CCSU/Center for Manufacturing Network. Program title P.A. 92-236 Sec.30&44. I have sent along copy of the Project Financing Plan & Budget.

Thank You,


Jim Bruner

cc: John Wright
Edward Rybczyk
Alan Kendrix
Jim Bruner



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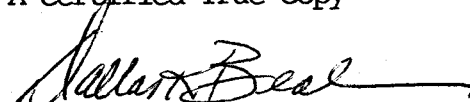
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President

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Assistant Attorney General

BFM:sad



INSTITUTE FOR INDUSTRIAL & ENGINEERING TECHNOLOGY
Central Connecticut State University
185 Main Street
New Britain, CT 06051
(203) 827-7966 Fax (203) 827-7025

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VP Finance & Administration

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