

18A:64J-22 et seq

LEGISLATIVE HISTORY CHECKLIST

NJSA: 18A:64J-22 et seq

(Advanced Technology Center  
in Ceramics--establishes)

LAWS OF: 1985

CHAPTER: 106

Bill No: A1765

Sponsor(s): Doria and others

Date Introduced: March 15, 1984

Committee: **Assembly:** Higher Education and Regulated Professions

**Senate:**

Amended during passage: Yes

Substituted for S1766(OCR)  
attached. Amendments during  
passage denoted by asterisks

Date of Passage: **Assembly:**

Feb. 14, 1985

**Senate:**

Feb. 28, 1985

Date of Approval: April 8, 1985

Following statements are attached if available:

Sponsor statement: Yes

Committee statement: **Assembly** Yes

**Senate** No

Fiscal Note: No

Veto Message: No

Message on Signing: Yes

Following were printed:

Reports: Yes

Hearings: No

Report, referred to in statements:

974.90 New Jersey. Governor's Commission on Science and Technology.  
I42 Report...December, 1983.  
1983q Trenton, 1983.  
(pp. 19-22)

4-8-85

[OFFICIAL COPY REPRINT]

## ASSEMBLY, No. 1765

## STATE OF NEW JERSEY

INTRODUCED MARCH 15, 1984

By Assemblymen DORIA, CHARLES, CUPROWSKI, VAINIERI, RANIERI, LARocca, Assemblywoman GARVIN, Assemblyman BOCCHINI, Assemblywoman MUHLER, Assemblymen ROCCO, GILL, LOVEYS, GALLO, KOSCO, SCHUBER, FELICE, ROONEY, KAVANAUGH, PENN and Assemblywoman PERUN

AN ACT establishing the Advanced Technology Center in *\*Industrial\** Ceramics and supplementing Title 18A of the New Jersey Statutes.

1 BE IT ENACTED *by the Senate and General Assembly of the State*  
2 *of New Jersey:*

1 1. The Legislature finds and declares that high technology  
2 *\*industrial\** ceramics is a field in which New Jersey has significant  
3 academic and industrial strengths. Progress in this area is ex-  
4 pected to produce significant economic growth and increases in  
5 productivity in the United States. New Jersey has the ability to  
6 capture a part of these economic benefits. To this end, the Legis-  
7 lature finds that the establishment of an advanced technology center  
8 in *\*industrial\** ceramics will generate additional research and tech-  
9 nological innovations to promote economic growth.

1 2. For the purposes of this act:

2 a. "Advanced technology center" means **\*[a program of sub-**  
3 **stantial and concentrated financial support that is provided to]\***  
4 *\*one or more\** outstanding programs or departments at New  
5 Jersey's public and private institutions of higher education *\*which*  
6 *are provided substantial and concentrated financial support\** to  
6A promote their development into national level bases for innovative  
6B technology research.

**EXPLANATION—Matter enclosed in bold-faced brackets [thus] in the above bill is not enacted and is intended to be omitted in the law.**

**Matter printed in italics thus is new matter.**

**Matter enclosed in asterisks or stars has been adopted as follows:**

**\*—Assembly committee amendments adopted January 28, 1985.**

7 b. "Business incubation facility" means low cost, short-term  
8 occupancy, rental spaces wherein assistance is granted to a tar-  
9 geted network of new companies employing selected technologies  
10 congruent with the strengths of the State's public and private  
11 institutions of higher education.

12 c. "Commission" means the Governor's Commission on Science  
13 and Technology \***[**or the permanent New Jersey Commission on  
14 Science and Technology as enacted into law pursuant to P. L.     ,     ,  
15 c.     (C.     ) (now pending before the Legislature as  
16 Assembly Bill No. 1767 of 1984) which was established as the  
17 successor to the Governor's Commission on Science and Tech-  
18 nology]\* as created by Executive Order No. 12 of 1982 \*or its  
18A successor which is established by the Legislature\*.

19 d. "Innovation partnership grants" means matching grants to  
20 academic researchers performing applied research in emerging  
21 technologies at any of the State's public and private institutions  
22 of higher education which are of strategic importance to the New  
23 Jersey economy under regulations adopted by the commission pur-  
24 suant to the "Administrative Procedure Act", P. L. 1968, c. 410  
25 (C. 52:14B-1 et seq.).

26 e. "Private institutions of higher education" means independent  
27 colleges\***[,]**\* \*or\* universities \***[**or institutes]\* incorporated and  
28 located in New Jersey, which by virtue of law or character or  
29 license, are nonprofit educational institutions authorized to grant  
30 academic degrees and which provide a level of education which is  
31 equivalent to the education provided by the State's public institu-  
32 tions of higher education as attested by the receipt of and con-  
33 tinuation of \***[**licensure by the New Jersey Board of Higher Edu-  
33A cation]\* \*regional accreditation by the Middle States Association  
33B of Colleges and Schools, and which are eligible to receive State aid  
33C under the provisions of the Constitution of the United States and  
33D the Constitution of the State of New Jersey, but does not include  
33E any educational institution dedicated primarily to the education or  
33F training of ministers, priests, rabbis or other professional persons  
33G in the field of religion\*.

34 f. "Public institutions of higher education" means Rutgers, The  
35 State University, the State colleges, the New Jersey Institute of  
36 Technology, the University of Medicine and Dentistry of New  
37 Jersey, the county colleges and any other public university or  
38 college now or hereafter established or authorized by law.

39 g. "Technology extension services" means programs that not  
40 only accelerate the application and transfer of technological inno-  
41 vations by the State's public and private institutions of higher

42 education to existing industry, but also adapt these innovations to  
43 the requirements of individual business operations.

1 3. There is established the Advanced Technology Center in  
2 *\*Industrial\** Ceramics at Rutgers, The State University, herein-  
3 after known as the center. Various public and private institutions  
4 of higher education and their faculties may be considered for par-  
5 ticipation in the work of the center in the future by the commission  
6 or institution.

1 4. As soon as may be practicable, the participating institution or  
2 institutions in consultation with and under regulations adopted by  
3 the commission, shall appoint a director of the center.

1 5. The participating institution or institutions *\*through the di-*  
1A *rector\** shall:

- 2 a. Administer and operate the center;
- 3 b. Appoint, remove and transfer personnel;
- 4 c. Establish programs in the center to promote *\*industrial\**  
5 ceramics research and *\*industrial\** ceramics industries; and
- 6 d. ~~Do all other acts and things~~ *\*Take all action\** necessary  
7 and proper for the ~~purposes~~ *\*operation\** of the center.

1 6. ~~Annual budget requests for the center shall be submitted to~~  
2 ~~and approved by the commission.~~ *\*The center shall submit its*  
3 *annual budget requests to the commission for approval.\**

1 7. The center, where appropriate and in consultation with the  
2 commission shall:

- 3 a. Make recommendations to the commission concerning the  
4 awarding of innovation partnership grants;
- 5 b. Make low-cost business incubation facilities available to new  
6 industry working in *\*industrial\** ceramics and related fields;
- 7 c. Provide technological extension services to businesses engaged  
8 in the applications of *\*industrial\** ceramics and related fields; and
- 9 d. Promote additional research and technological innovation to  
10 generate economic growth in *\*industrial\** ceramics and related  
11 fields.

1 8. This act shall take effect on the 60th day following enactment.

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- 2 a. Administer and operate the center;
- 3 b. Appoint, remove and transfer personnel;
- 4 c. Establish programs in the center to promote ceramics research  
5 and ceramics industries; and
- 6 d. Do all other acts and things necessary and proper for the  
7 purposes of the center.
- 1 6. Annual budget requests for the center shall be submitted to  
2 and approved by the commission.
- 1 7. The center, where appropriate and in consultation with the  
2 commission shall:
- 3 a. Make recommendations to the commission concerning the  
4 awarding of innovation partnership grants;
- 5 b. Make low-cost business incubation facilities available to new  
6 industry working in ceramics and related fields;
- 7 c. Provide technological extension services to businesses engaged  
8 in the applications of ceramics and related fields; and
- 9 d. Promote additional research and technological innovation to  
10 generate economic growth in ceramics and related fields.
- 1 8. This act shall take effect on the 60th day following enactment.

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#### STATEMENT

This bill establishes the Advanced Technology Center in Ceramics at Rutgers, The State University. The purpose of establishing this center is to develop such areas as high technology ceramics and related fields. By promoting research and development in these areas, the economy in the State will be stimulated, thereby creating greater job opportunities and new businesses. This bill implements Recommendation 3 of the report of the Governor's Commission on Science and Technology.

S1765(1985)

ASSEMBLY HIGHER EDUCATION AND REGULATED  
PROFESSIONS COMMITTEE

STATEMENT TO

**ASSEMBLY, No. 1765**

with Assembly committee amendments

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**STATE OF NEW JERSEY**

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DATED: JANUARY 28, 1985

SUMMARY OF THE BILL:

This bill provides for the establishment of an Advanced Technology Center in Ceramics at Rutgers University. Other public and private institutions of higher education may also participate in the work of the center as designated by the commission or Rutgers.

The work of the center is to include the following:

1. Establish programs in the center to promote ceramics research and industries;
2. Make low-cost business incubation facilities available to new industry working in ceramics and related fields;
3. Provide technology extension services to businesses engaged in the applications of ceramics and related fields; and,
4. Promote research and technological innovation to generate economic growth in ceramics and related fields.

FOR YOUR INFORMATION:

1. The recommendation for the establishment of an Advanced Technology Center in Ceramics was contained in the December, 1983 report of the Governor's Commission on Science and Technology.

The commission noted the strength of the Ceramics Department at Rutgers University as well as the recently established Center for Ceramics Research at Rutgers (CCR). The CCR was established with initial funding from the National Science Foundation. The current activity of the CCR focuses on structural ceramics as well as on the future development of electronic ceramics. The recommendations of the Governor's Commission on Science and Technology would enable CCR to expand its work and to encourage the development of new companies in New Jersey as spin-offs from its research.

2. High technology ceramics evidently have a wide range of uses because of their unique characteristics including abrasion and high temperature resistance. Advanced ceramics are coming into use as

automotive and engine parts, computer components and optical fiber materials for telecommunication purposes.

The committee amendments specify that the center will deal with industrial ceramics, and make other technical changes necessary to clarify the language of the bill.

The committee favorably reports this bill with amendments.

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The Center's activities will include research in new techniques for dealing with hazardous substances, and the promotion of technology extension services to businesses engaged in hazardous substance management. It is envisioned that the Center will also serve as a repository for existing knowledge in the field and will disseminate new information and guidance as it becomes available.

A-1763, sponsored by the late Assemblyman Edward K. Gill, R-Union, establishes the Advanced Technology Center in Food Technology. That Center, with \$6 million in capital funding from the bond issue, will be located at Cook College of Rutgers.

Food technology studies will encompass the chemical, biological and engineering aspects of food production, processing, packaging and storage. The Center will engage in the development of new food products and better methods of processing. Technology extension services will be provided to businesses engaged in food science and related fields.

A-1764, also sponsored by Assemblyman Gill, establishes the Advanced Technology Center in Biotechnology, jointly governed by Rutgers and UMDNJ. It will receive \$20 million in capital funding from the bond issue.

Research at the Center will include processing of biomaterials, gene splicing and the production of monoclonal antibodies. The result of this research are expected to have major applications in the pharmaceutical and health care industries.

A-1765, sponsored by Assemblyman Doria, establishes the Advanced Technology Center in Industrial Ceramics. Located at Rutgers University, the Center will receive \$9 million in capital funding from the bond issue. Industrial ceramics are characterized by durability, light weight and high strength and have a wide variety of applications in industry, aeronautics and space technology. A second aspect of the Center will focus on fiber optics materials research.

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SENATE, No. 1766

STATE OF NEW JERSEY

INTRODUCED MAY 14, 1984

By Senators ORECHIO and RUSSO

Referred to Committee on Education

AN ACT **[to establish]** *establishing* the Advanced Technology Center in *Industrial* Ceramics and supplementing Title 18A of the New Jersey Statutes.

1 BE IT ENACTED *by the Senate and General Assembly of the State*  
2 *of New Jersey:*

1 1. The Legislature finds and declares that high technology *in-*  
2 *dustrial* ceramics is a field in which New Jersey has significant  
3 academic and industrial strengths. Progress in this area is expected  
4 to produce significant economic growth and increases in produc-  
5 tivity in the United States. New Jersey has the ability to capture  
6 a part of these economic benefits. To this end, the Legislature finds  
7 that the establishment of an advanced technology center in *indus-*  
8 *trial* ceramics will generate additional research and technological  
9 innovations to promote economic growth.

1 2. For purposes of this act:

2 **[a.** "Commission" means the Governor's Commission on Sci-  
3 ence and Technology or the permanent New Jersey Commission on  
4 Science and Technology as enacted into law pursuant to P. L. ...,  
5 c. ... (C. ...) (now pending before the Legislature as  
6 Assembly Bill No. 1767 of 1984) which was established as the suc-  
7 cessor to the Governor's Commission on Science and Technology  
8 as created by Executive Order No. 12 of 1982.]**\***

9 **[b.]** *a.* "Advanced **[Technology Center]**" refers to a pro-  
10 gram of substantial and concentrated financial support that is pro-  
11 vided to] *technology center* means one or more outstanding  
12 programs or departments at New Jersey's public and private in-

**EXPLANATION**—Matter enclosed in bold-faced brackets [thus] in the above bill is not enacted and is intended to be omitted in the law.

Matter printed in italics *thus* is new matter.

Matter enclosed in asterisks or stars has been adopted as follows:

\*—Senate committee amendments adopted February 4, 1985.

13 stitutions of higher education *\*which are provided substantial and*  
 14 *concentrated financial support\** to promote their development into  
 15 national level bases for innovative technology research.

16 *\*b. "Business incubation facility" means low cost, short-term*  
 17 *occupancy, rental spaces wherein assistance is granted to a targeted*  
 18 *network of new companies employing selected technologies con-*  
 19 *gruent with the strengths of the State's public and private institu-*  
 20 *tions of higher education.*

21 *c. "Commission" means the Governor's Commission on Science*  
 22 *and Technology as created by Executive Order No. 12 of 1982 or its*  
 23 *successor which is established by the Legislature.*

24 *d. "Innovation partnership grants" means matching grants to*  
 25 *academic researchers performing applied research in emerging*  
 26 *technologies at any of the State's public and private institutions of*  
 27 *higher education which are of strategic importance to the New*  
 28 *Jersey economy under regulations adopted by the commission pur-*  
 29 *suant to the "Administrative Procedure Act," P. L. 1968, c. 410*  
 30 *(C. 52:14B-1 et seq.).*

31 *e. "Private institutions of higher education" means independent*  
 32 *colleges or universities incorporated and located in New Jersey,*  
 33 *which by virtue of law or character or license, are nonprofit edu-*  
 34 *cational institutions authorized to grant academic degrees and which*  
 35 *provide a level of education which is equivalent to the education*  
 36 *provided by the State's public institutions of higher education as*  
 37 *attested by the receipt of and continuation of regional accredita-*  
 38 *tion by the Middle States Association of Colleges and Schools, and*  
 39 *which are eligible to receive State aid under the provisions of the*  
 40 *Constitution of the United States and the Constitution of the State*  
 41 *of New Jersey, but does not include any educational institution*  
 42 *dedicated primarily to the education or training of ministers,*  
 43 *priests, rabbis or other professional persons in the field of religion.\**

44 *\*[c.]\* \*f.\* "Public institutions of higher education" means*  
 45 *Rutgers, The State University, the State colleges, the New Jersey*  
 46 *Institute of Technology, the University of Medicine and Dentistry*  
 47 *of New Jersey, the county colleges and any other public university*  
 48 *or college now or hereafter established or authorized by law.*

49 *\*[d. "Private institutions of higher education" means independ-*  
 50 *ent colleges, universities, or institutes incorporated and located in*  
 51 *New Jersey, which by virtue of law or character or license, are non-*  
 52 *profit educational institutions authorized to grant academic degrees*  
 53 *and which provide a level of education which is equivalent to the*  
 54 *education provided by the State's public institutions of higher edu-*  
 55 *cation as attested by the receipt of and continuation of licensure by*  
 56 *the New Jersey Board of Higher Education.*

57 e. "Innovation partnership grants" means matching grants to  
 58 academic researchers performing applied research in emerging  
 59 technologies at the State's public and private institutions of higher  
 60 education which are of strategic importance to the New Jersey econ-  
 61 omy under regulations adopted by the commission pursuant to the  
 62 "Administrative Procedure Act," P. L. 1968, c. 410 (C. 52:14B-1  
 63 et seq.).】\*

64 \*【f.】\* \*g.\* "Technology \*【Extension Services】\* \*extension ser-  
 65 vices\*" means programs \*【to】\* \*that not only\* accelerate the ap-  
 66 plication and transfer of technological innovations by the State's  
 67 public and private institutions of higher education to existing in-  
 68 dustry, \*【specifically to work with the State's businesses to】\* \*but  
 69 also\* adapt these innovations to the requirements of individual  
 70 business operations.

71 \*【g. "Business Incubation Facilities" means the provision of  
 72 space and technical assistance to a targeted network of develop-  
 73 mental facilities, consisting of low cost space, for short-term occu-  
 74 pancy, to new companies employing selected technologies congruent  
 75 with the strengths of the State's public and private institutions of  
 76 higher education.】\*

1 3. There is established the Advanced Technology Center in \*In-  
 2 dustrial\* Ceramics at Rutgers, The State University, hereafter  
 3 known as the center. Various public and private institutions of  
 4 higher education and their faculties may be considered for partici-  
 5 pation in the work of the center in the future by the commission or  
 6 institution.

1 4. As soon as may be practicable, the participating institution or  
 2 institutions in consultation with \*and under regulations adopted by\*  
 3 the commission, shall appoint a director of the center.

1 5. The participating institution or institutions \*through the di-  
 2 rector\* shall:

- 3 a. \*【administer】\* \*Administer\* and operate the center;
- 4 b. \*【appoint】\* \*Appoint\*, remove and transfer personnel;
- 5 c. \*【establish】\* \*Establish\* programs in the center to promote  
 6 \*industrial\* ceramics research and \*industrial\* ceramics indus-  
 7 tries; and
- 8 d. \*【do all other acts and things】\* \*Take all action\* necessary  
 9 and proper for the \*【purposes】\* \*operation\* of the center.

1 6. \*【Annual budget requests for the center shall be submitted to  
 2 and approved by the commission.】\* \*The center shall submit its  
 3 annual budget request to the commission for approval.\*

1 7. The center, where appropriate and in consultation with the  
 2 commission shall:

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- 3 a. **make** *Make* recommendations to the commission c  
4 concerning the awarding of innovation partnership grants;
- 5 b. **make** *Make* low-cost business incubation facilities avail-  
6 able to new industry working in *industrial* ceramics and related  
7 fields;
- 8 c. **provide technology** *Provide technological* extension ser-  
9 vices to businesses engaged in the applications of *industrial*  
10 ceramics and related fields; and
- 11 d. **promote** *Promote* additional research and technological  
12 innovation to generate economic growth in *industrial* ceramics  
13 and related fields.
- 1 8. This act shall take effect the 60th day following enactment.
-