

## Status of College

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Presented to:

**President Maidique**

**Provost Mau**

By:

Gordon Hopkins, Dean

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## Review of Goals

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- ◆ Transform Technology Programs into Professional Programs
- ◆ Build College of Engineering
- ◆ Develop Architecture and Landscape Architecture
- ◆ Achieve Diversity
- ◆ Develop Engineering Service & Economic Development Enterprise

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## Technology

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- ◆ School of Health
- ◆ Labor Research Center
- ◆ Drinking Water Research Center
- ◆ Technology Programs

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## School of Design

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- ◆ Architecture Technology to Architecture Studies
- ◆ Landscape Architecture
- ◆ Interior Design
- ◆ Master of Architecture
- ◆ School of Design

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## Engineering Goals

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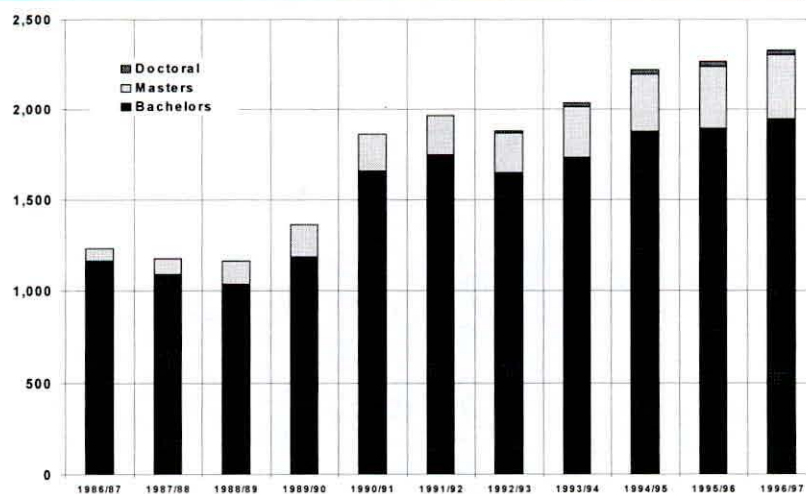
- ◆ Achieve Recognition in Dade County
- ◆ Achieve Parity in South Florida
- ◆ Achieve Parity in Florida
- ◆ Achieve and Maintain Diversity
- ◆ Create Engineering Service and Economic Development Enterprise
- ◆ Achieve Global Status

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## CED Enrollment

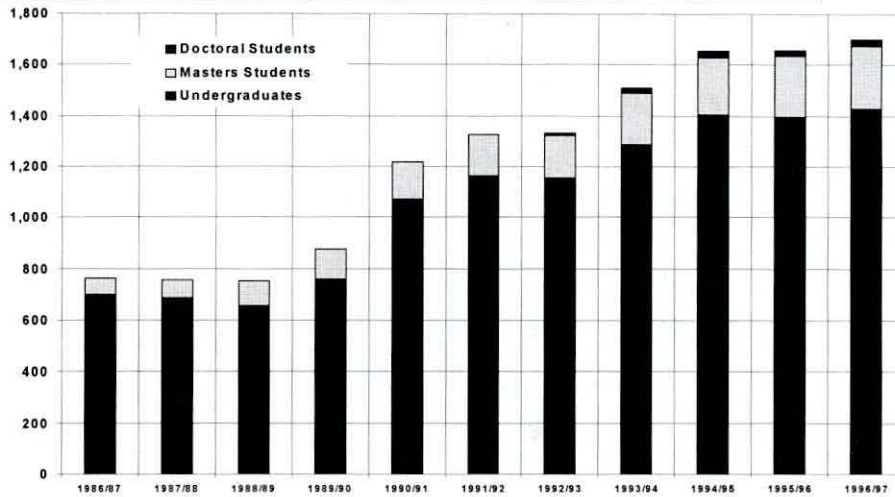
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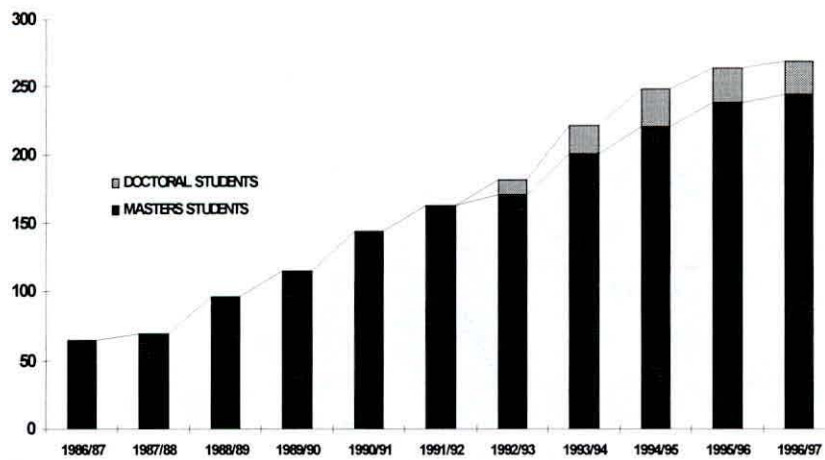
# Engineering Enrollment



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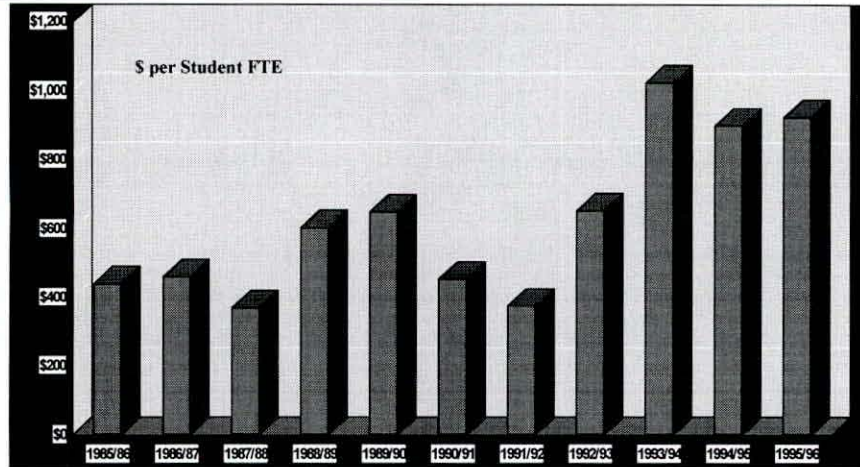
# CED Graduate Enrollment



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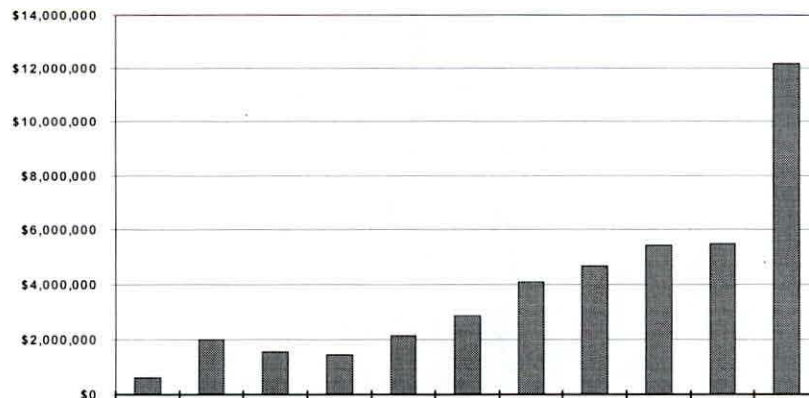
## CED Operating Funds



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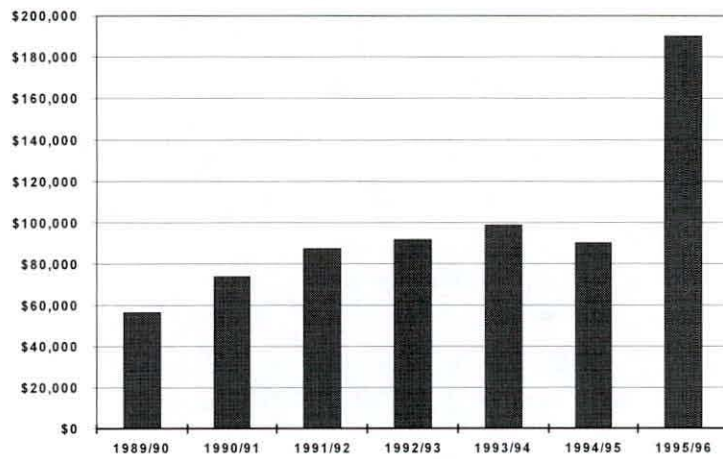
## CED Research History



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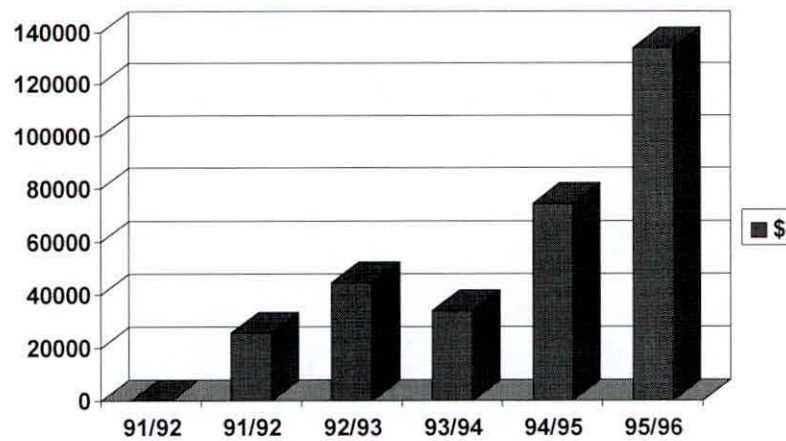
## CED Research per Faculty



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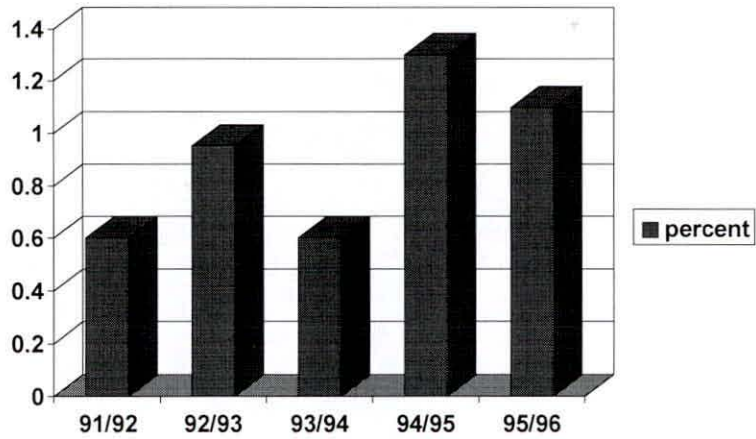
## Overhead Return to CED



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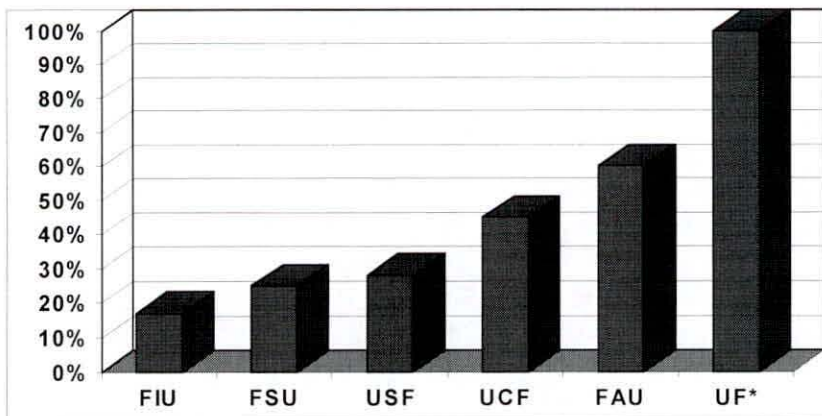
## Overhead Returned to CED



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## Return of Indirect Cost



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## CED Faculty Productivity

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- ◆ Engr. Faculty Productivity Factor = **1.95**
  - 50% Increase from previous year
  
- ◆ Research Productivity:
  - External \$/ State \$ = **12.6**
  
  - » University goal = **2.0**

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## Development

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- ◆ Advisory Council for Engineering (ACE)
  - Joe Merino: President & CEO; Unipower
  - Luis Perez: IBM Corporation
  - Armando I. Perez: V.P.; Camp, Dresser & McKee, Inc.
  - Dr. Daniel S. Abensour: V.P.; Racal Data Group
  - Glenn Urbish: V.P. Advanced Mfg.; Motorola-Sunrise
  - Dr. Herbert A. Wertheim: President; Brain Power, Inc.
  - Frank Treppe: V.P. & COO; Fraunhofer USA
  - Dr. Norman Weldon
  - Robert J. Hovey: V.P. of Nuclear; FP&L
  - Antonio Romero: V.P.; Bell South Business Systems
  - Nortel
  - Construction Co. (Parsons Brinckerhoff, Turner, Codina)

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## Future Directions: Academic Programs

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- ◆ Separate School of Design and return to Engineering & Applied Sciences
- ◆ Programs:
  - Engineering Management
  - Chemical Engineering
  - Ph.D. Civil Engineering
  - Construction Engineering
  - Bio-medical Engineering
  - Doctor of Engineering
  - Ph.D. Industrial Engineering
  - Distance Learning (industry - global)

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## Future Direction: Research

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- ◆ Targets:
  - Environment
  - Software Engineering
  - Telecommunications
  - Health
  - Urban Systems
  - Technology Management
  - Electronic Systems
  - Manufacturing

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## Future Directions: Research (cont.)

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- ◆ Goal: \$25,000,000 Sponsored Research
- ◆ Increased Industrial Sponsored Research
- ◆ Research Centers
  - HCET
  - FAST
  - Transportation Center
  - CATE
  - Advance Manufacturing Center
  - SGI/FIU Digital Imaging Center
  - DWRC

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## Future Direction: Research (cont.)

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- ◆ Projects:
  - SGI/Disney
  - Manufacturing Research Center
  - SAIC
  - Whitaker/Baptist
  - Environmental Research Building
  - DWRC
  - Center for Health Technologies
  - Research Foundation
  - Research Partnership (Park)
  - Technology Center (Fraunhofer)

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## Future Direction: Research (cont.)

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- ◆ Research Corporation
- ◆ Industry Research Center
- ◆ Business Incubator
- ◆ Training and Professional Development
- ◆ Fraunhofer type activity
- ◆ Technology Transfer

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## Future Direction: Development

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- ◆ Priorities:
  - Scholarships
  - Endowed Chairs & Professorships
  - Centers of Excellence
- ◆ Prospects (\$4,250,000):
  - Corporations = \$2,800,000
  - Foundations = \$1,300,000
  - 5-Figure Gifts = \$ 125,000
  - Individuals = \$ 25,000

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## Future Direction: CEAS

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- ◆ College of Engineering & Applied Sciences
- ◆ Research Corporation
- ◆ Business Partners in Existing Building
- ◆ Business Incubator
- ◆ Government/Business/University Building
- ◆ Research Park Building

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## Key Issues

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- ◆ Occupy & Develop CEAS
- ◆ Re-investment in Research Infrastructure
- ◆ Decision Making Process
- ◆ Organizational Effectiveness
- ◆ Inability to Invest in Winners
- ◆ Research Corporation
- ◆ Academic Support at CEAS
- ◆ Pursue Development Initiative
- ◆ Industry Partners
- ◆ Research "Park" Development

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## Next Steps

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- ◆ Little action since last meeting
- ◆ Address overhead return policy (60%)
- ◆ Address Management Structure  
(Decentralize & Empower)
- ◆ Form Research Corporation (Base Funding)
- ◆ Develop plan for “Research Park” at CEAS
- ◆ Develop plan for Technology Center

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## Two Paths to the Future

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- ◆ Develop plan for growth, modify management and build the #1 engineering program in the State and a Research/Technology Park to drive economic growth in South Florida.
- ◆ Continue on present path.

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