2003-2004 Engineering & Technology

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Mission

Our vision is to be an innovative leader in effective, collaborative, and accessible education, research and scholarship, and service programs in engineering and technology.

Our mission is to provide quality education, develop technical leaders, and conduct basic and applied research. We strive to enhance our community through civic responsibility and by promoting economic development.

Goals and Objectives

A1. Attract and support a better prepared and a more diverse student population.

A1.a. Reevaluate and redesign the process to interact with high school students.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: null

Time Frame: Ongoing

Actions taken for 2003-2004:

1. Improve Friday Lab activities (completed).
2. Make Friday Labs easier to organize (completed).

Evidence of Progress for 2003-2004:

There is an increased demand from area high schools for Friday Lab visits.

Activities planned for 2004-2005:

1. Market Friday Labs and update website.
2. Develop more hands-on activities to take to high schools.

A1.b. Increase the number and amount of merit-based scholarships.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2003-2004:

The current level of student scholarship funds in the school is $80,000 annually. There are now three four-year
scholarships by Carrier Corporation to women students who study mechanical engineering. In addition, students have access to many one-time merit-based awards sponsored by local businesses and industries.

Evidence of Progress for 2003-2004:

Carrier Corporation increased the number of scholarships from two to three. Also, there are now more number of freshman engineering students this year with SAT scores of 1200 or above.

Activities planned for 2004-2005:

1. Develop a process and procedure for awarding scholarships.
2. Look for funding opportunities for the scholarships.
3. Market scholarship opportunities to prospective donors.
4. Market the scholarship opportunities to prospective students.

☐ A1.c. Expand the articulation agreements with other institutions to increase the number of better-prepared students.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2003-2004:

1. Articulation agreement signed for ITSC-Indianapolis for Interior Design Technology 4-yr program.
2. Articulation agreement finalized with Vincennes University for Interior Design Technology 4-yr program.
3. Articulation agreement signed with Beech Grove High School, Center Grove High School, and Shelbyville High School for CIT 106.
4. Articulation agreement signed with Carmel Clay High School for ART 165, ART 117, ART 120, CNT 105, CNT 110 and ART 155.
5. Articulation agreement signed with Warren Township for ECET 109.
6. Articulation agreement finalized with Vincennes University for Biomedical Engineering B.S. program.
7. Articulation agreement finalized with ITSC-Indianapolis between Visual Communication - Graphic Design and CGT Interactive Specialty track.

Evidence of Progress for 2003-2004:

Our undergraduate student count, new to IU, continues to increase from 289 in 1999 to 334 in 2003.

Activities planned for 2004-2005:

We plan to revisit and update the articulation agreements with Ivy Tech State College and Vincennes University.

☐ A1.d. Maintain and increase the quality of current programs, as measured by accrediting agencies and in comparison with peer institutions, to meet the needs of industry.

Campus Planning Theme: Teaching and Learning

Secondary Goals:
Actions taken for 2003-2004:

All applicable programs are currently accredited by ABET. In October 2004, computer, electrical, and mechanical engineering programs were visited for reaccreditation.

Evidence of Progress for 2003-2004:

ABET accreditation is a must for engineering and technology programs in USA.

Activities planned for 2004-2005:

As ABET gets prepared to accredit degrees and programs in information technology (IT), we plan to prepare our IT programs for ABET accreditation visit in 2006. The remaining technology programs with the exception of Organizational Leadership and Supervision will be visited in fall 2006 for reaccreditation purposes.

☑ A1.e. Develop more effective promotional plans, including success stories and placement information.
   
   **Campus Planning Theme:** Teaching and Learning
   **Secondary Goals:**
   **Sub Unit:** None
   **Time Frame:** Ongoing

Actions taken for 2003-2004:

New set of program brochures have been developed with a uniform color and design throughout.

Evidence of Progress for 2003-2004:

Feedback on the effectiveness of new brochures has been positive from new students and high school advisors.

Activities planned for 2004-2005:

1. Determine types of stories to highlight and select students.
2. Utilize website and email newsletter to highlight stories.
3. Determine a strategy for collecting placement information.

☑ A1.f. Increase the number of high school graduates in the top percentile of their graduation class by 2006.
   
   **Campus Planning Theme:** Teaching and Learning
   **Secondary Goals:**
   **Sub Unit:** None
   **Time Frame:** Ongoing
Actions taken for 2003-2004:

Special letters are sent to these students inviting them to campus tour, laboratory visit, and meeting with some faculty in their areas of interest. Full scholarship opportunities are offered to these students.

Evidence of Progress for 2003-2004:

The fall 2004 freshman engineering intake is one of the best prepared groups of students admitted.

Activities planned for 2004-2005:

1. Work with admissions office to determine the best way to identify the top students at central Indiana high schools.
2. Prepare targeted mailings to the students and high school guidance counselors.
3. Invite students that are interested in engineering and technology to a scholarship day.
4. Develop a scholarship package for the top 1% of students.

A1.g. Increase the number of classes offered via distance education.

**Campus Planning Theme:** Teaching and Learning
**Secondary Goals:**
**Sub Unit:** None
**Time Frame:** Ongoing

Actions taken for 2003-2004:

In addition the three existing certificate programs in the school that are entirely online, the Department of Computer and Information Technology (CIT) now offers all of its courses in AS degree online.

Evidence of Progress for 2003-2004:

Percentage of student credit hours generated by online CIT courses increased from 10% in 2001 to 14% in 2003.

Activities planned for 2004-2005:

Increase the student credit hours generated via online courses from the current 16% to 25% in the Department of Computer and Information Technology.

A1.h. Offer entire quality certificate or degree program via distance education.

**Campus Planning Theme:** Teaching and Learning
**Secondary Goals:**
**Sub Unit:** None
**Time Frame:** Ongoing
Actions taken for 2003-2004:

Three certificate programs (Information Technology, E-Commerce Applications, and Biomedical Electronics Laboratory Certification) and AS program in Computer and Information Technology are entirely online at this time.

Evidence of Progress for 2003-2004:

The percentage of student credit hours from online courses went from 10% last year to 14% this year.

Activities planned for 2004-2005:

We plan to offer the entire Computer and Information Technology BS online. We also plan to increase the percentage of student credit hours generated via online courses to 25% of the total student credit hours.

A1.i. Increase the amount of scholarships for underrepresented students (e.g. females, minorities).

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2003-2004:

Two full four-year scholarships, sponsored by Carrier Corporation, have been targeted for women mechanical engineering students. Ford Motor Company Minority Scholarships are given annually to successful African American students. School also supports two minority students with research scholarships and this fall awarded one student McNair scholarship.

Evidence of Progress for 2003-2004:

The percentage of minority and women students in the school has been steady during the past few years.

Activities planned for 2004-2005:

We plan to increase the number of scholarships targeted for underrepresented groups. The planned activities are:

1. Identify the target markets - females, African American, and Hispanic.
2. Develop scholarship policy and procedures for awarding scholarships to this population.
3. Identify potential donors.
4. Market scholarship opportunities to guidance counselors.
5. Utilize PSAT lists to market scholarships.

A1.j. Increase the amount and frequency of faculty visits to high schools.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing
Actions taken for 2003-2004:

The Director of Student Services has established extensive set of contacts with high school counselors and mathematics, science, and technology teachers. Through these contacts, faculty members are invited to visit high schools and make presentations to group of students.

Evidence of Progress for 2003-2004:

Three of the Computer and Information Technology faculty visits resulted in computer programming course articulations with the high schools last year and extensive contacts have been established through the Project Lead the Way.

Activities planned for 2004-2005:

1. We plan to increase the number of faculty visits.
2. Identify the schools in Central Indiana that have Project Lead the Way courses and also specialty programs (i.e. emphasis on interior design).
3. Communicate with the appropriate person at the high schools and share that information with respective E & T departments.
4. Determine faculty members that are interested in going to high schools.
5. Develop hands-on activities that can be taken to high schools.

☐ A1.k. Increase the marketing efforts for degree programs.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

1. Mail/deliver information to business and industry in Indiana.
2. Update the website - new look and current information.

Evidence of Progress for 2003-2004:

We are still in the process of evaluating the effectiveness of these efforts.

Activities planned for 2004-2005:

We will continue with marketing of IT programs.
A1.1. Offer industry-specific courses.

**Campus Planning Theme:** Teaching and Learning  
**Secondary Goals:**  
**Sub Unit:** None  
**Time Frame:** Ongoing

**Actions taken for 2003-2004:**

In the past, special courses have been designed for our industry partners such as EDS, Raytheon, diversified, Roche, and others. Our current partner is Sally Mae in IT area.

**Evidence of Progress for 2003-2004:**

Companies come back for additional special courses.

**Activities planned for 2004-2005:**

The IT initiative has a specific component patterned after the Sallie-Mae efforts, but could offer assistance for other options.

A2. Support and enhance effective teaching.

A2.a. Implement teaching and administrative loads based on the expectations for teaching, research, and service.

**Campus Planning Theme:** Teaching and Learning  
**Secondary Goals:**  
**Sub Unit:** None  
**Time Frame:** Ongoing

**Actions taken for 2003-2004:**

At the request of Faculty Senate, faculty teaching loads in the school had been reviewed four years ago and the Senate recommended that the loads be reduced, whenever possible. We have made some progress in this area in selected departments.

**Evidence of Progress for 2003-2004:**

We anticipate that faculty members whose teaching loads are reduced will spend more time for research and scholarship efforts.

**Activities planned for 2004-2005:**

We want to reduce the teaching loads to the recommended levels.

A2.b. Increase the amount of technology incorporated into the teaching and learning process.

**Campus Planning Theme:** Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Agreement with UITS for fall 2004 semester to permanently locate portable classroom technology in ET building. Additional general inventory classrooms in ET and SL buildings equipped by UITS with permanent technology including VGA projectors, computers, DVD players and VCRs during summer 2004.

Evidence of Progress for 2003-2004:

Student satisfaction on the item "use of technology in the classroom" went down from 51% in 2001 to 41% in 2003. This may be reflection on the departments/programs which do not use technology extensively in teaching.

Activities planned for 2004-2005:

Most efforts focus around promoting existing programs at the campus level such as Oncourse and use of the multimedia equipped classroooms. Most departments are actively exploring these options. CPT is exploring new frontiers of technology in the classroom such as wireless, PDA’s and streaming video.

☐ A2.c. Provide additional support for faculty in course preparation (e.g. equipment, training; helpers).
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Assistance is being offered, but without a formal plan or budget. The Computer Network Center (CNC) Help Desk is probably the most utilized conduit for this type of support. Faculty members responsible for Freshmen Learning Community classes are now meeting on a periodic basis to discuss retention issues and best practices.

Evidence of Progress for 2003-2004:

There is no feedback available yet.

Activities planned for 2004-2005:

There is a modest budget in the school for this purpose.

☐ A2.d. Increase the participation from each department in faculty development efforts (e.g. Office of Professional Development workshops) that emphasize teaching excellence.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Actions taken for 2003-2004:

Faculty are encouraged to use the services available through OPD. Information, application forms, and announcements are widely disseminated. Dean and chair meet with each faculty during their probationary period on a yearly basis to put together and implement development plan.

Evidence of Progress for 2003-2004:

The number of faculty preparing proposals for OPD grants and the number of faculty using OPD services have been on the increase.

Activities planned for 2004-2005:

These efforts will continue.

☑ A2.f. Develop a uniform school-wide orientation, training, and mentoring program for junior faculty, with an emphasis on teaching excellence.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: null

Actions taken for 2003-2004:

First comprehensive school orientation for new faculty took place in fall 2004 for newly hired faculty members.

Evidence of Progress for 2003-2004:

No data available yet.

Activities planned for 2004-2005:

Regular new faculty orientation will be conducted annually.

☑ A2.g. Develop more assessment rubrics at course- and program-levels.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:
Actions taken for 2003-2004:

The Assessment Committee’s work on this continues.

Evidence of Progress for 2003-2004:

The work of the school Assessment Committee proved to be very useful for 2000 and 2004 ABET visit of the engineering programs.

Activities planned for 2004-2005:

Tailor the assessment activities towards ABET accreditation guidelines.

☑ A2.h. Provide adjunct faculty members with greater mentoring and support.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2003-2004:

School offers orientation at the beginning of each fall and spring semester to all new and continuing adjunct faculty. Adjunct faculty academic manual rewritten for fall 2004 semester to include new campus policies and emphasis on FERPA regulations.

Evidence of Progress for 2003-2004:

The feedback has been very positive from the adjunct faculty.

Activities planned for 2004-2005:

We plan to survey the adjunct faculty to see how we can improve the orientation and increase the mentoring support during the semester.

☑ A2.i. Maintain life-cycle plan for technology (hardware and software).

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2003-2004:

The process of equipment replacement has been slow due to budget limitations.

Evidence of Progress for 2003-2004:
Student feedback has not improved significantly in this area. More funds are needed.

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**Activities planned for 2004-2005:**

We have begun to look at budget restructuring to deal with various future scenarios since the campus no longer supports the life-cycle plan for faculty and staff computers.

- **A3. Enhance undergraduate student learning and success.**

  - **A3.a. Enhance undergraduate student learning and success through improved advising practices.**

    - **Campus Planning Theme:** Teaching and Learning
    - **Secondary Goals:**
    - **Sub Unit:** None
    - **Time Frame:** Ongoing

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**Actions taken for 2003-2004:**

We visit the student advising issues frequently to improve the student satisfaction. Each department/program uses student advising system that best fits the faculty and student population.

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**Evidence of Progress for 2003-2004:**

Student satisfaction survey indicates that the percentage of students satisfied with academic advising went from 55 in 1999 to 57 in 2001 and to 56 in 2003.

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**Activities planned for 2004-2005:**

All academic advisors are receiving training in the new Student Information System.

- **A3.b. Increase the number of students who take responsibility for their advising through the use of technology (e.g. web; INSITE).**

  - **Campus Planning Theme:** Teaching and Learning
  - **Secondary Goals:**
  - **Sub Unit:** None
  - **Time Frame:** Ongoing

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**Actions taken for 2003-2004:**

Plans of study for all degree programs with the exception of two have been coded.

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**Evidence of Progress for 2003-2004:**

New registration is now done using these completed plans of study.
Activities planned for 2004-2005:

Degree audits for 75 EGTC plans of study from certificates to Bachelor of Science degrees in process of coding during CY2004.

☑ A3.c. Ensure that all programs provide relevant and coordinated course offerings.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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Actions taken for 2003-2004:

Educational Policy Committee of the Faculty Senate keeps the overlap to minimum. Faculty members responsible for Freshmen Learning Community classes are now meeting on a periodic basis to discuss retention issues and best practices. Ongoing discussions between CIT and CSCI and between ECE and CSCI program occurring to coordinate course and program offerings.

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Evidence of Progress for 2003-2004:

All of the course remonstrance cases have been resolved through these meetings.

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Activities planned for 2004-2005:

We will encourage the departments/programs to make use of other courses offered by other academic units on campus to avoid duplication and efficient use of resources.

☑ A3.d. Increase undergraduate student involvement in internship and coop experiences.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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Actions taken for 2003-2004:

Credit hour fee requirement has been revised. Promotional materials are updated. Industrial partnership database is updated.

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Evidence of Progress for 2003-2004:

The number of students in the internship program tripled from 2002 to 2004.
Activities planned for 2004-2005:

More emphasis will be placed on creating additional internship and coop position for our students. Some of the action items are:
1. Set up monthly information sessions during the academic year.
2. Contact faculty to make presentations at Learning Community classes.
3. Attend student council meetings on a regular basis.
4. Utilize board in hallway of ET building to post information about internships/co-ops.
5. Utilize department list serves to contact students.
6. Update website.

☐ A3.e. Create additional space for student learning and relaxation.

● Campus Planning Theme: Teaching and Learning
● Secondary Goals:
● Sub Unit: None
● Time Frame: Ongoing

Actions taken for 2003-2004:

The student lounge areas on the second and third floors of ET Building have been renovated using the funds from the endowment the school received for this purpose. Our students in Interion Design program used "green design" concept for renovation. Several of our industry partners donated materials, time, and funds for renovation.

Evidence of Progress for 2003-2004:

More students use the newly renovated ET Building lounges.

Activities planned for 2004-2005:

Currently, there is no student lounge area in SL Building. We plan to work with the School of Science to design a lounge area between SL and LD Buildings.

☐ A3.f. Maintain ABET accreditation in applicable programs.

● Campus Planning Theme: Teaching and Learning
● Secondary Goals:
● Sub Unit: None
● Time Frame: Ongoing

Actions taken for 2003-2004:

Currently, all applicable programs have ABET accreditation. Computer, electrical, and mechanical engineering programs were visited by ABET team during October 16-19, 2004.

Evidence of Progress for 2003-2004:

All recent ABET visits have been successful.
Activities planned for 2004-2005:

Technology programs will be visited by ABET in fall 2006 for reaccreditations.

☑ A3.g. Ensure that tutoring is readily available to students.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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Actions taken for 2003-2004:

Each department/program uses part of the allocated budget to hire tutors.

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**Evidence of Progress for 2003-2004:**

Students ask for tutors in several classes that we offer.

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Activities planned for 2004-2005:

School will increase the funds for tutoring whenever the budget permits.

☑ A3.h. Increase participation in the Undergraduate Research Opportunity Program.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** null

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Actions taken for 2003-2004:

Information about UROP has been widely distributed to our students and faculty. Number of our students have participated in the program.

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**Evidence of Progress for 2003-2004:**

null

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Activities planned for 2004-2005:

The funds received from the Dedicated Tuition Funding Program will increase undergraduate student participation in...
The funds received from the Dedicated Tuition Funding Program will increase undergraduate student participation in research.

A3.i. Provide improved career planning for students.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**
Sub Unit: None
**Time Frame:** Ongoing

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**Actions taken for 2003-2004:**

Connection has been established with IUPUI Career Service Office.

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**Evidence of Progress for 2003-2004:**

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**Activities planned for 2004-2005:**

1. Work with IUPUI Career Services to establish engineering and technology specific workshops (employer resume workshop, mock interviews, and employer information sessions).
2. Bring more businesses and alumni to campus to talk to students about career opportunities.

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A3.j. Develop practices and approaches that encourage students to apply learning to real-world situations.

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**
Sub Unit: None
**Time Frame:** Ongoing

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**Actions taken for 2003-2004:**

Most of the senior capstone courses in the school require students to complete one to two semester projects. Whenever possible, these projects are selected from industry setting. Service component has been added to school-based scholarships.

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**Evidence of Progress for 2003-2004:**

null

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**Activities planned for 2004-2005:**

More industry-based projects will be offered to students. Number internships and co-ops will be increased.

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A3.l. Improve student retention and persistence rates.

**Campus Planning Theme:** Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Improvements in student advising, providing tutors, and recruiting academically better prepared students appear to improve the student retention.

Evidence of Progress for 2003-2004:

Freshman/sophomore student retention rate decreased from 73% in 2001-02 to 71% in 2003-04. It went up to 84% from 83% for junior and senior students.

Activities planned for 2004-2005:

1. Office of Student Services can promote activities on campus that include prospective employers.
2. Promote student council and other student organizations to students.
3. Develop a plan to offer scholarships to part-time, high achieving, and current students.

☐ A3.m. Continue benchmarking with industry and other universities.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

School has been using the benchmarking with the six universities which are IUPUI’s peers.

Evidence of Progress for 2003-2004:

The comparative statistics from the peer institutions were used in budget presentations to IUPUI campus administration.

Activities planned for 2004-2005:

Benchmarking with industry has not been attempted yet.

☐ A4. Provide effective professional and graduate program support for graduate students and post-doctoral fellows.

☐ A4.a. Increase the number of continuing education and short courses for professionals and graduate students.

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Some of the certificate programs offered in the school are for professional development of our graduates. Examples are Human Resource Certificate Program, Quality Control Certificate Program, etc.

Evidence of Progress for 2003-2004:

There is an increased enrollment trend in the certificate programs.

Activities planned for 2004-2005:

Department of Mechanical Engineering Technology is in the process of developing six sigma courses for small businesses in and around Indianapolis.

A4.b. Develop Ph.D. program in Engineering.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Agreement has been signed between the Department of Electrical and Computer Engineering and the School of Electrical and Computer Engineering at Purdue University, W. Lafayette to start doctorate program at IUPUI. Purdue University Graduate School has approved the agreement. A similar agreement has been signed between the Department of Mechanical Engineering at IUPUI and the School of Mechanical Engineering at WL.

Evidence of Progress for 2003-2004:

There are currently 12 engineering PhD students enrolled at IUPUI.

Activities planned for 2004-2005:

Recruitment of new Ph.D. students and offering of doctorate level courses started in fall 2004.

A4.c. Develop masters program (degree or certificate) in Technology.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing
Actions taken for 2003-2004:

Agreement to offer Master of Science in Industrial Technology at IUPUI has been signed. Student recruitment and course offering started in fall 2004.

Evidence of Progress for 2003-2004:

There are currently 12 Ph.D. students in the Purdue system, 9 in BME, and 3 in ME.

Activities planned for 2004-2005:

Formal MS in Technology proposal has been approved by IUPUI Graduate Affairs Committee and it is currently at Purdue University, WL waiting for approval and transmission to Indiana Higher Education Commission.

A4.d. Increase support for graduate degree programs, in terms of both physical space and fiscal allocation.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Limited non-base cash funds are allocated for graduate program support.

Evidence of Progress for 2003-2004:

No additional support has been made available by campus administration yet.

Activities planned for 2004-2005:

More funds are needed to offer Ph.D. program in engineering and masters’s program in technology.

A4.e. Provide additional support for graduate students and post-doctoral fellows through scholarships, fellowships, etc.

Campus Planning Theme: Teaching and Learning

Secondary Goals:

Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Two TA positions were made available to ECE and ME departments during fall 2004 for first year PhD students.
Evidence of Progress for 2003-2004:

No evidence is available yet.

Activities planned for 2004-2005:

Increase the number of Teaching Assistant positions for engineering departments.

- A4.f. Initiate better publicity for graduate programs.

  **Campus Planning Theme:** Teaching and Learning
  **Secondary Goals:**
  **Sub Unit:** None
  **Time Frame:** Ongoing

Actions taken for 2003-2004:

No action has been taken.

Evidence of Progress for 2003-2004:

null

Activities planned for 2004-2005:

1. Promote graduate programs to Central Indiana business and industry.
2. Identify regional universities that have undergraduate programs in E & T and participate in their graduate fairs.

- B1. Conduct world-class research, scholarship, and creative activity relevant to Indianapolis, the state, and beyond.

  - B1.a. Develop and/or maintain department-level research plan.

    **Campus Planning Theme:** Research, Scholarship and Creative Activity
    **Secondary Goals:**
    **Sub Unit:** None
    **Time Frame:** null

Actions taken for 2003-2004:

All departments submitted short range and long range research plans. Developed preliminary research plan for the school with priority research areas and projected external funding to 2013.

Evidence of Progress for 2003-2004:
No feedback has been received yet.

Activities planned for 2004-2005:

The plan is being refined and will be ongoing activity.

☑️ B1.b. Develop and/or maintain industry-based research.
   
   **Campus Planning Theme:** Research, Scholarship and Creative Activity  
   **Secondary Goals:** None  
   **Sub Unit:** None  
   **Time Frame:** Ongoing

Actions taken for 2003-2004:

Invited Tom Stevens, Chief Engineer of Raytheon and other program managers to present to and meet with faculty. Invited Joerg Schreiber, VP of Roche to present to and meet with faculty. Invited John Dement and his colleagues from CRANE to present and meeting with faculty in the school. Arranged reverse faculty visit and presentation to companies such as Raytheon, Cummins, Peerless Pumps, and other companies. Established new technical contacts for potential collaborative research. More ongoing and continuing activities in this area.

Evidence of Progress for 2003-2004:

Industrial and commercial research income went from $490,990 in 2002-03 to $353,041 in 2003-04. We believe the reason for continuing decrease has been the slowdown of the economy especially for the manufacturing sector in Indiana. The number of proposals to this sector however, went up from 11 to 12 in one year.

Activities planned for 2004-2005:

Establish “research committee” for DIAC and make long range plan to increase the number and amount of industry-based research.

☑️ B1.c. Attract and retain world-class faculty capable of research, scholarship, and creative activity.
   
   **Campus Planning Theme:** Research, Scholarship and Creative Activity  
   **Secondary Goals:** None  
   **Sub Unit:** None  
   **Time Frame:** ongoing

Actions taken for 2003-2004:

Some of the cash funds in the school have been used to make the start-up offers to new faculty more attractive. Release time from teaching has been extended to two years for new faculty from the time they are hired. Associate Dean for Research met with most active research faculty members on individual basis. Discussed how to provide service and support for their research. Paid more attention to productive research faculty, their concerns. Helped the Dean address the issues and retain those faculty members. Promoted and publicized school faculty and their research. Participated in new faculty recruiting and provided information for faculty candidates about the school research.
Evidence of Progress for 2003-2004:

We have not been able to hire the top candidates in computer engineering for 2004-05 academic year due to insufficient start-up funds.

Activities planned for 2004-2005:

We plan to reintroduce the concept of “Faculty Practice Center” in the school which was turned down by the university administration few years ago. We believe that such a center, similar to the ones in existence at the schools of Medicine and Dentistry, will provide additional incentive for higher quality faculty to come to IUPUI.

☑ B1.d. Increase funding for health sciences focused research.
   Campus Planning Theme: Research, Scholarship and Creative Activity
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing

Actions taken for 2003-2004:

Working closely with BME faculty and other related faculty in proposal writing. Facilitating collaborative research with Schools of Medicine and Dentistry. Connecting faculty and school to biotechnology companies and life science communities in central Indiana and beyond.

Evidence of Progress for 2003-2004:

Current four biomedical engineering faculty members continue receiving research funds from NIH. Charles Turner became a full-time biomedical engineering faculty member switching from his position in the School of Medicine.

Activities planned for 2004-2005:

With the additional faculty positions given to biomedical engineering by the campus through Dedicated Tuition Funds, there will be more research grants and contracts in health sciences area in the school.

☑ B1.e. Develop Ph.D. program in Engineering.
   Campus Planning Theme: Research, Scholarship and Creative Activity
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing

Actions taken for 2003-2004:

Same as Objective A4.b.
Activities planned for 2004-2005:

Same as Objective A4.b.

B2. Provide support to increase scholarly activity and external funding.

B2.a. Provide support to attend research-related professional development opportunities.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Every full-time faculty member in each department is given $1,400 annually for professional development activities. More funds may be available at the school level for faculty members who are active in research-related professional activities. About 40% of the indirect cost recovery from a research and grant contract is returned to principal investigators and their departments. Initiated and sponsored faculty research development workshops and seminars including: (1) How to write successful peer-reviewed proposals (NSF, NIH, etc.); (2) Workshop on IP and technology commercialization and transfer; (3) Issues in Research Contracts: Involved in the arrangements of exchange visits/presentations between Purdue Discovery Park and IUPUI and the School. Organized faculty to attend research workshops held at Purdue University-WL. Facilitated and coordinated the PRF grant application process for the School. Sponsored other research seminars within the School.

Evidence of Progress for 2003-2004:

Faculty feedback so far has been positive.

Activities planned for 2004-2005:

Continue with the current practice.

B2.b. Seek industry funds for applied research purposes.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Actively interacted with local and national industry and helped faculty develop network with industry. Organized and sponsored visits and reverse visits between faculty and local companies. Identifying industry funding opportunities for the School. Partnering faculty with industry.

Evidence of Progress for 2003-2004:
Although the number of proposals to industry increased from last year, the current lull in manufacturing sector has its slowing impact.

Activities planned for 2004-2005:

With new organizational structure effective in January 2004, the role of industry relations will be handled by "Associate Dean for Research".

B2.c. Train faculty on better proposal writing, etc.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

School encourages faculty to attend OPD sponsored workshops on proposal writing. Starting with 2003-04 academic year, one faculty member was given 25% release time from teaching to assist other faculty in grant writing.

Evidence of Progress for 2003-2004:

Only few faculty members used the assistance provided.

Activities planned for 2004-2005:

School plans to conduct its own grant writing workshops and seminars for faculty.

B2.d. Provide seed funding for research initiation and proposal generation.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

School awards research seed funding to faculty up to $5,000 per year. Committee of faculty members selects the awardees from a pool of proposals submitted. New faculty members are given a higher priority.

Evidence of Progress for 2003-2004:

Number of faculty developed full proposals using the seed funds.
Activities planned for 2004-2005:
The research seed funds will be increased as school receives additional research and contracts income.

☑ B2.e. Implement teaching and administrative loads based on the expectations for teaching, research, and service.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:
Same as Objective A2.a.

Evidence of Progress for 2003-2004:
Same as Objective A2.a.

Activities planned for 2004-2005:
Same as Objective A2.a.

☑ B3. Enhance infrastructure for scholarly activity.

☑ B3.a. Implement teaching and administrative loads based on the expectations for teaching, research, and service.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:
Same as Objective A2.a.

Evidence of Progress for 2003-2004:
Same as Objective A2.a.

Activities planned for 2004-2005:
Same as Objective A2.a.

☑ B3.b. Develop and/or maintain linkages between research, scholarship, and creative activity and teaching and learning.
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

These linkages have been in place as part of promotion and tenure guidelines for faculty.

Evidence of Progress for 2003-2004:

null

Activities planned for 2004-2005:

More clarification of these linkages may be necessary for technology faculty as some of them have educational pedagogy as their research and scholarly activity area.

☑ B3.d. Provide greater access to research facilities for faculty and students.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Faculty and students have full access to all available research facilities. Four departments share some of the teaching laboratories to provide much needed research space.

Evidence of Progress for 2003-2004:

Any additional research productivity and efficiency will depend upon available space.

Activities planned for 2004-2005:

When the basement of ET Building becomes available for occupation, school will have additional research space.

☑ B3.h. Maximize university resources for research purposes.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing
Actions taken for 2003-2004:

Every year few of our faculty members apply for RIF support on campus. So far, two faculty members received funds from RIF.

Evidence of Progress for 2003-2004:

RIF is very important campus research resource. Biomedical engineering program received will be receiving one-time cash of $1.3M from RIF for faculty start-up funds.

Activities planned for 2004-2005:

We will continue making additional requests.

☑ B3 i. Explore opportunities with ARTI and other research incubators.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

School facilitated several faculty members explore potential opportunities with ARTI. Three faculty members have already used the opportunities to create incubator companies.

Evidence of Progress for 2003-2004:

One ARTI staff member serves on the Dean’s Industrial Advisory Council. Two ARTI staff members held meetings and discussions for patent application and venture funding possibilities.

Activities planned for 2004-2005:

Our involvement with ARTI will continue and more faculty members will be exposed to what ARTI offers.

☑ B3 j. Fill current vacancy for Dean-level research administrator.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Completed

Actions taken for 2003-2004:

Position has been filled.
Evidence of Progress for 2003-2004:

The overall research activities expanded very quickly with Yao-bin Chen’s appointment.

Activities planned for 2004-2005:

null

☑ B3. To develop and/or maintain local and national industry relationships.

Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

School’s relationship with local industry has been excellent. All programs/departments in the school have well functioning industry advisory boards.

Evidence of Progress for 2003-2004:

These boards meet at least once a semester and has had major input to curricular, equipment, and fund raising efforts.

Activities planned for 2004-2005:

Through equipment proposals, school has now access to some national industries such as Cisco, Microsoft, and others. We will continue to explore connections to national companies.

☑ C1. Enhance capacity for civil engagement.

☑ C1.a. Review promotion and tenure documents to reflect renewed emphasis on civic engagement (e.g. definitions; measurement).

Campus Planning Theme: Civic Engagement
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Faculty Affairs Committee of the Faculty Senate is currently in the process of reviewing the promotion and tenure documents. Civic engagement section will be revise extensively.
Evidence of Progress for 2003-2004:

We expect the revised version of the promotion and tenure document to be available and enforced by 2005-06 academic year.

Activities planned for 2004-2005:

The document is still at the Faculty Senate.

☑ C1.c. Increase, maintain, and/or acknowledge service-learning opportunities for students.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2003-2004:

Our efforts in this area continue.

Evidence of Progress for 2003-2004:

At this time, the activities are limited to Departments of Computer and Information Technology and Construction Technology students. With more involvement and engagement with the IUPUI Solution Center, more opportunities will be available for our students.

Activities planned for 2004-2005:

No new activities are planned.

☐ C2. Enhance civic activities, partnerships, and client services.

☒ C2.b. Increase and/or maintain interaction with local high schools (e.g. student outreach; teacher training).

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2003-2004:

School has strong interaction with several area high schools. Faculty and staff visit high schools for career days, technology demonstrations, and guest lectures. Students come for “Friday Labs” to IUPUI and are exposed to experiments, computer hardware and software, and career choices.

Evidence of Progress for 2003-2004:
Friday Labs have been very popular among the high school students.

Activities planned for 2004-2005:

1. Actively promote Friday Labs.
2. Look for more opportunities to go to high schools to present.
3. Look for high school programs that could use mentors or expertise such as First Robotics.

☑ C2.d. Develop appropriate mechanisms for external requests related to civic engagement to be aligned with School resources and assets.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2003-2004:

Several meetings took place with the Solution center directors to coordinate activitie

Evidence of Progress for 2003-2004:

No progress yet.

Activities planned for 2004-2005:

More interaction is planned with the IUPUI Solution Center.

☑ C2.e. Increase scope of job fair. (increase job fair opportunities to students).

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2003-2004:

School assists IUPUI career Center in Campus Job fair event. Other job fair opportunities are promoted and announced to students.

Evidence of Progress for 2003-2004:

Activities planned for 2004-2005:
1. Expand the number of engineering and technology related businesses that attend the intern fair.
2. Promote area job fairs (held at the convention center) to our students.
3. Expand the number of businesses that hold interviewing sessions on campus.

C3. Intensify commitment and accountability to Indianapolis, Central Indiana, and the state.

C3.a. Develop a listing of faculty expertise.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

**Actions taken for 2003-2004:**

This was completed at the request of Dean’s Industrial Advisory Council.

**Evidence of Progress for 2003-2004:**

List has been recently updated.

**Activities planned for 2004-2005:**

List needs to be update and new faculty are to be added.

C3.b. Support other campus initiatives for civic engagement (e.g. partnerships with other units; contributions to campus-level Civic Engagement Inventory).

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

**Actions taken for 2003-2004:**

No action has been taken yet.

**Evidence of Progress for 2003-2004:**

null

**Activities planned for 2004-2005:**

null
C3.c. Increase involvement in area economic development activities and research parks.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Three faculty members have 20% release time each every year to participate in the Purdue University Technical Assistance Program. They provide free technical consultation in mechanical engineering and information technology areas to small business and industry organization. Our undergraduate and graduate students take part in these projects.

Evidence of Progress for 2003-2004:

Connection with TAP and IUPUI Solution Center has been successful as Purdue University seeks for additional funds to involve more IUPUI faculty with TAP.

Activities planned for 2004-2005:

We plan to integrate some of the internship opportunities, Technical Assistance Program, and the IUPUI Solution Center projects so that we have a wider base of projects and student population.

C3.d. Develop better ways of identifying new markets and providing unmet needs.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

No action has been taken yet.

Evidence of Progress for 2003-2004:

null

Activities planned for 2004-2005:

Utilize the Solution Center to assist in determining the industry needs in Indiana, specifically Central Indiana.

C3.e. Develop outreach efforts for specialized populations (e.g. adults with some college but no degree).

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2003-2004:

Meetings are in progress with Roche Diagnostics and Raytheon.

Evidence of Progress for 2003-2004:

null

Activities planned for 2004-2005:

1. Increase marketing efforts to local business and industry.
2. Utilize the website for marketing.

Fiscal Health

*** Fiscal health report for 2004-05 is attached as PDF file. ***

Fiscal Health 2004-05

The School of Engineering and Technology tries to maintain a conservative approach to budget planning and implementation. This approach has been serving us well over the past twelve years. The School of Engineering and Technology has remained fiscally and financially healthy throughout the use of RCM.

Due to the volatility of the international student enrollment, especially in these times, the School avoids budgeting out-of-state fees. Funds earned but not budgeted in this category are used annually to supplement a number of School related initiatives and activities such as paying for part-time faculty salaries, summer salaries, and/or visiting faculty salaries. We use cash funds to purchase instructional laboratory equipment and to fund renovation projects. The School also uses cash funds for additional graduate student support, additional student scholarships, assessment projects, new faculty start-up packages, faculty awards and grants, staff development, as well as, School student projects such as, the solar splash, battlebot, moon buggy, and the basic utility vehicle projects.

The School of Engineering and Technology will embark on the first phase of a large renovation project in the ET basement over the next year. This project will use up most of the additional cash the School has been saving. The School will acquire about 15,000 sq ft of space in the basement of ET Building and turnover 3,000 sq ft of space to the School of Science. The basement will be gutted and brought up to code with air, ramp, toilets, etc. for $1M+. The campus is not contributing to this renovation. The School will have to raise funds to finish the renovation for laboratories and offices in a second phase. Meanwhile the area will still be used for instructional and research purposes. Walls will be built for the ten computing laboratories and various offices planned for the space during the second phase.

The School’s principal concern for the future is how to acquire base funding to hire full-time faculty to teach in the School’s growing programs that are not currently on the campus priority list. New faculty positions cannot be funded strictly with student fee income. While the school has continued to grow, it has never received any campus funding for enrollment growth. Student fee income only supports 40% to 60% of a full time faculty’s base salary given the number of credit hours the faculty member will generate in a year. We recommend that some sort of base sharing plan from the campus reallocation funds be established so that schools/programs experiencing growth or those that have disproportionate numbers of part-time faculty will have a method of funding full time positions for existing programs to maintain and improve the quality of the educational experience for the students enrolled in those programs. The current method does not appear to reward units producing at high levels or increasing growth.
Reallocation Plan

The budgeted reallocation funds to school for 2004-05 is $510,000. Out of this, $200,000 is for biomedical engineering undergraduate program, $200,000 is for two computer engineering faculty positions, and $110,000 is for a biomedical engineering faculty position.

With the exception of new funds of $200,000 for biomedical engineering program, the other commitments are continuation of earlier allocations.

Other Question(s)

How do you plan to maintain/increase quality in the face of diminishing resources? What processes do you have in place to do this, for example, how are faculty involved in decision-making?

With the addition of new graduate degree programs (PhD in ECE and ME as well as MS in Technology) and lack of additional resources to fund these initiatives, maintaining the quality of our academic programs has almost become an insurmountable task. In addition, the enrollment in the school is on the decline during the past two semesters, reducing the cash funds drastically.

The renovation of ET Building basement will cost over $1.0M and no campus or university funding is made available even if the 75% of the cost is to bring the basement up to the current building code by replacing the HVAC system, building ADA compatible ramp, and other physical improvements. This cost estimate does not include any furnishings or partitions and/or walls. Thus, the school will be forced to use all of its reserve cash funds for the renovation without which a quality instruction is not possible.

Faculty Senate of the school has a standing Budgetary Affairs Committee whose members are elected by the Faculty Senate. This committee meets at least once every semester to review School’s finances and provides advice to dean as well as reporting to the Faculty Senate.

How do you cultivate a climate for diversity -- how do you recruit, develop, and retain diverse students, faculty, and staff? How do you incorporate diversity in the curriculum, in research, in civic engagement?

The school’s focus for more diverse student and faculty has been to increase the percentage of African American, Hispanic, and women groups. Minority Engineering Advancement program (MEAP) successfully continues as a summer activity for minority students between 6th and 11th grades. High school graduates from this group are given half to full scholarship to attend our school. There is special mentoring program in the school to retain women students in some of our engineering and technology programs. We are working with the IUPUI Athletics Department to share scholarship costs to recruit women athletes who will study engineering or technology.

School appoints one diversity advocate to each faculty search and screen committee to make sure that qualified diversity candidates are not overlooked. The diversity advocates attend the training and workshop offered by IUPUI HR Administration.

Some of the civic engagement activities of the school such as Habitat for Humanity focus on diversity. School also supports minority scholars who work with our research faculty.

Five years from now what proportion of your faculty do you expect to be in the following categories: tenure track faculty, clinical faculty, research faculty, lecturers, or other academic specialties (percentages should total 100%)?

We are expecting about five of our tenured senior faculty members to retire during the next five years and thus will be about 18 tenure track faculty (12%) in the school. The remaining faculty composition may look like 47 tenured (59%), 10 lecturer (13%), 3 clinical (4%), and others (14%).

Please prepare an EXECUTIVE SUMMARY of no more than one page summarizing your most significant accomplishments of the past year (including items from the period from July 1, 2003 to the present) and the major initiatives you plan to undertake in 2004-05.

Teaching and Learning

School experienced modest enrollment increase in both headcount (1.26%) and student credit hours (2.58%) for fall 2003 as compared to fall 2002 figures. There was a slight drop in student credit hours for spring 2004 as compared to spring 2003. Following years of steady increase, enrollment of international students declined by 3.2%. Fall 2004 numbers however, showed a decrease of 6.4% in student credit hours and 4.38% in terms of student headcount as compared to fall 2003. The Bachelor of Science Degree in Technology with a major of Interior Design Technology and the Bachelor of Science in Biomedical Engineering were approved by the Indiana Higher Education Commission and will begin admitting students in the fall 2004. A combined 5-year degree program in Mechanical Engineering was developed that will allow students to complete their Bachelor of Science and Master of
Science in Mechanical Engineering. The Certificate in Network Security received approval from the campus and has begun admitting students. Joint doctorate programs in computer, electrical, and mechanical engineering programs were approved as well as master’s program in technology.

School awarded 117 certificates, 261 AS degrees in technology, 223 BS degrees in technology, 85 BS degrees in engineering, and 30 MS degrees in engineering. Based on the 2003 issue of the “Profiles of Engineering and Engineering Technology Colleges” prepared by the American Society for Engineering Education (ASEE), the School ranks fourth nationally in terms of bachelors degrees awarded in engineering technology (223), second nationally for engineering technology degrees awarded to women (33), and first nationally for engineering technology enrollment (1,890). More on: www.asae.org/colleges.

The Foundry Education Foundation (FEF) reviewed the Department of Mechanical Engineering technology curricula and facilities. The department was granted 4-year accreditation. Accreditation Board for Engineering and Technology, Inc. (ABET) visited computer, electrical, and mechanical engineering programs for reaccreditation during October 2004.

Research and Scholarship

The School faculty submitted a total of seventy-one external research proposals during the academic year and twenty-five awards were received for a total of $2,247,986. Among the major grants received during the year are NIH grants by John Schild and Hiroki Yokota, NSF grants by Zina Ben Miled, Indiana 21st Century grants by Yaobin Chen, Paul Salama, and Andrew Hu as well as industry based grants by Razi Nalam.

One of the major accomplishments of 2003-04 has been a milestone development in graduate programs. Three agreements have been signed with the Purdue University, West Lafayette College of Engineering, School of Technology, and the Graduate School which give the school a limited authority to offer PhD programs in computer and electrical, and mechanical engineering as well as MS program in technology.

Civic Engagement

As part of the IUPUI Comprehensive Campaign, the school’s philanthropic goal of $6M was exceeded by $615,869. Alumni Association of the school was again very active with Freshman Barbeque Welcome, Symphony on the Prairie, Holiday Night at the Children’s Museum, Golf Classic, and Wine exchange events. School received $50,000 grant from the Indiana Department of Workforce Development to create a partnership with IPS and IUPUI faculty and provide underrepresented students an opportunity to be academically and socially mentored by IUPUI students. School will provide full scholarships to selected Project PETE (Pathways to Engineering and Technology Education) graduates from the IPS system.

School celebrated the National Engineers Week during the last week of February with several weeklong activities to increase awareness for engineering and technology for prospective and continuing students. School offered a highly interdisciplinary course GO GREEN (Green Organizations- Global Responsibility for Economic and Ecological Course) was offered for the first time during the summer of 2003 with lecture component taught at IUPUI and the field work and industry tours done in Mannheim, Germany. Seventy secondary school teachers attended Tech-Camp (a weeklong professional development opportunity for K-12 teachers) during the summer of 2003 under the supervision of Computer and Information Technology faculty members to learn about computer programming and web development. For the first time, several in the group used campus housing during the week. School hosted the National Jets/Teams (Tests of Engineering Aptitude, Mathematics, and Science) competition for 15 area high schools. Seventy-five minority students from grades six through eleven attended the Minority Engineering Advancement Program (MEAP) during the summer of 2003. The program is now in its twenty-eighth years. The Annual Alumni Hi Tea in Malaysia attracted over 160 guests to include the alumni, their family members, and friends of the school.