Mission

Our vision is to be one of the best urban schools of engineering and technology, recognized locally, nationally, and internationally for its achievements.

Our mission is to provide to our constituents:

- High quality, well-rounded, and relevant educational experiences that promote critical thinking, scholarly work, and effective communication;
- An environment that encourages and promotes excellence in technical proficiency, leadership, scholarship, basic and applied research, creative pursuits, and lifelong learning and that provides opportunities to develop the necessary skills;
- An environment that fosters respect for cultural, ethnic, racial, age, and gender diversity;
- Educational programs that are regularly reviewed and assessed for continuous improvement;
- Outreach and accessibility to the educational, research, and service needs of the broader community through collaboration with other educational institutions, local school systems, businesses and government agencies, and cultural organizations;
- Activities that support the intellectual and economic development of business, industry, government, and community stakeholders.

Our Core Values that define, inform, and guide our decisions and actions are:

- Academic Excellence: Academic excellence is our first priority. We foster, recognize and value lifelong excellence in learning, teaching, and scholarship.
- Collaboration & Partnering: We value teamwork, collaboration, and partnership building within and across disciplines and with the community.
- Diversity: We value and encourage intergenerational, multiethnic, and international diversity in our research foci, curricula, and pedagogy and in our faculty, staff, and student composition. We encourage diversity of ideas.
- Professionalism & Integrity: We foster, recognize, and reward high standards of professionalism and integrity. We value industrial experience in our faculty and students. We expect faculty to be academic and professional role models. We support best practices in teaching and learning. We expect ethical decision making and behavior by all people and in all practices associated with the School.
- Respect/Colegality/Civility: We respect and value the unique abilities, perspectives, and contribution of every person in the Schools community. We respect each other as individuals. We respect every persons right and responsibility to carry his/her share of the load.
- Responsiveness & Service: We are committed to service and volunteerism both within and outside our School and to meeting the needs of our constituents. We encourage feedback from our constituencies and work to adjust our efforts to meet their needs. We are committed to changing our teaching programs and research initiatives to respond to our constituents stated and anticipated needs.
- Leadership & Continuous Improvement: We foster, recognize, and reward high levels of leadership at every level in the School. We are committed to being a leader in the disciplines of engineering and technology. We seek to assess and regularly refine our programs and administrative processes.
- IUPUI Identity: We value the unique opportunities associated with being part of one of the nations best urban universities, and we appreciate the value of the Purdue name in our degrees. With a wide range of degree programs (1/4 associate through doctoral) and 18 schools, IUPUI is Indiana's most comprehensive academic institution and is one of the leading research institutions in the State.

Goals and Objectives
A1. Attract more students, including better prepared students and a more diverse population to the school

A1.a. Increase involvement in Project Lead the Way and similar programs. • Champion: Terri Talbert-Hatch and Charles Feldhaus

**Campus Planning Theme:** Teaching and Learning  
**Secondary Goals:**  
**Sub Unit:** mall  
**Time Frame:** Ongoing

**Actions taken for 2005-2006:**

1. We hosted 7 high schools and over 400 students during 2005-06.  
2. Hosted the second annual Project Lead the Way Conference in collaboration with the Indiana Department of Education in April 2006 with 200+ high school students in attendance.  
3. We offered $1,000 each scholarship to students who completed Project Lead the Way courses in high school and who agreed to come to our technology programs.

**Evidence of Progress for 2005-2006:**

Our Friday labs have large groups of students attending.

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A1.b. Continue to improve our process for recruiting students from K-12. • Champion: Terri Talbert-Hatch

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

**Actions taken for 2005-2006:**

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 undergraduate mechanical engineering. Cummins Corporation created two graduate engineering scholarships for minority students to start in 2005-06. In addition, students have access to many one-time merit-based awards sponsored by local businesses and industries.

**Evidence of Progress for 2005-2006:**

Engineering and Technology students received 7 Bepko scholarships , 3 Hoosier Presidential, 1 Val/Sal, 9 Academic Excellence, 24 Dean of Faculties, 12 First Generation, 1 Distinguished Freshman, and 1 Outstanding Freshman scholarships for 2005-55 academic year. Carrier Corporation increased the number of scholarships from two to three. Two Cummins minority graduate engineering scholarships were made available for 2006-07.
Activities planned for 2006-2007:

1. Look for funding opportunities for the scholarships.
2. Market scholarship opportunities to prospective donors.
4. Market the scholarship opportunities to prospective students.

- Increase the number of scholarships for underrepresented students. • Champion: Terri Talbert-Hatch • Team members: Paula Jenkins and Sam White

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

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**Actions taken for 2005-2006:**

With the help of Sam White, Senior Advisor to Dean for Diversity and Engagement, we have initiated new contacts with our industry partners to secure additional scholarships for minority students.

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**Evidence of Progress for 2005-2006:**

We do not have any progress to report yet.

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Activities planned for 2006-2007:

We are in the process of reviewing our Minority Engineering Advancement Program (MEAP) to bridge more MEAP participants to attend our school with scholarship support.

- Increase the number of merit-based scholarships and funding per scholarship. • Champion: Terri Talbert-Hatch • Team member: Paula Jenkins

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

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**Actions taken for 2005-2006:**

During 2005-06, 30 in-state students received merit-based scholarships in the amount of $36,000 and 5 international students received a total of $10,558 as tuition scholarships based on merit.

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**Evidence of Progress for 2005-2006:**

We continue attracting students with better academic credentials due to merit-based scholarship offers.

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Activities planned for 2006-2007:

School made scholarship offers to 53 in-state and 18 international students with a total amount of $65,000.

☐ A1.e. Increase the number of highly qualified traditional students who are directly admitted to the school. • Champion: Terri Talbert-Hatch

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**
- None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

We are convinced that merit-based scholarships are key attracting highly qualified traditional students. Thus, we work with the campus level scholarship programs to provide supplementary scholarship from the school so that the offer packages to students are attractive and competitive.

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**Evidence of Progress for 2005-2006:**

The SAT/ACT scores of admitted students increased as well as the number of scholarship holders from 2004-05 to 2005-06.

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Activities planned for 2006-2007:

We will continue offering merit-based scholarships to academically strong students.

☐ A1.f. Expand articulation agreements with other institutions to increase the number of qualified transfer students. • Champion: Bill Conrad • Team members: Charles Feldhaus and Tim Diemer

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**
- None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

Director of External Academic Links, Charles Feldhaus, continued his work to update the articulation agreements with Ivy Tech and number of area high schools. Director of International Service Office, Tim Diemer, also facilitated additional MOU signing with the international institutions.

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**Evidence of Progress for 2005-2006:**

We have noticed that more high school teachers have contacted us last spring to add their schools to our articulation list.

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**Activities planned for 2006-2007:**
Department of Computer and Information Technology will increase online course offerings to high schools and articulate some advanced placement of high school students when they apply to and are admitted by our school.

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 2005-2006:**

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 on line.

**Evidence of Progress for 2005-2006:**

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

**Activities planned for 2006-2007:**

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. Enhance the quality of all programs, as measured by accrediting agencies, in comparison with peer institutions, and to meet the needs of industry. • Champion: Bill Conrad and Andrew Hsu • Team members: Department Chairs and Directors

**Campus Planning Theme:** Teaching and Learning

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

**Actions taken for 2005-2006:**

Our computer engineering and electrical engineering programs had received "three years and a report" from ABET after the most recent report. In accordance, interim reports were prepared and submitted to ABET on June 30, 2006. The final ABET action will be received around August 2007.

The Departments of Biomedical Engineering, Electrical and Computer Engineering, and Mechanical Engineering went through IUPUI Program Review process in October 2005. The focus of the review was research and graduate programs.

**Evidence of Progress for 2005-2006:**

We continue preserving the accreditation status of all of our accreditable programs by ABET.

**Activities planned for 2006-2007:**
Number of our technology programs will be visited by ABET team in the fall of 2006. We also plan to have comprehensive review of all of our technology programs after the ABET visit.

A1.i. Increase marketing efforts for academic programs. • Champion: Terri Talbert-Hatch • Team members: Bill Conrad and Department Chairs

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

Actions taken for 2005-2006:
We changed the size, format, and presentation of our program brochures to follow the campus publications. A complete overhaul of the school and departmental websites also took place.

Evidence of Progress for 2005-2006:
Our enrollment continues to drop in spite of increased publicity and recruitment efforts.

Activities planned for 2006-2007:
We plan to increase the number of visits to high schools, attend more recruitment fairs both locally and nationally.

A1.j. Continue to improve the school’s process for maintaining contact with prospective students upon first contact. • Champion: Terri Talbert-Hatch

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

Actions taken for 2005-2006:
The Assistant Dean for Student Services contacts newly admitted or transferred students for academic advising, registration, and any needed follow up. Departments are asked to also establish contact with new students and welcoming them.

Evidence of Progress for 2005-2006:
We do not have any evidence at this point.

Activities planned for 2006-2007:
We plan to continue the effort in a more focused fashion to improve the enrollment and to improve the retention.
A1.k. Increase the number of classes offered via nontraditional delivery methods. • Champions: Ken Reid and Barbara Christe • Team members: Ed Sullivan, Wanda Worley, Department Chairs, and Directors

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

We continued to developing and teaching more online courses as well as 1-week courses during the Christmas break, spring break and summer.

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**Evidence of Progress for 2005-2006:**

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

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**Activities planned for 2006-2007:**

Department of Mechanical Engineering Technology plans to offer two 8-week course modules during regular fall and spring semesters.

A1.1. Increase the number of certificate and degree programs offered by nontraditional delivery methods. • Champions: Ed Sullivan, Ken Reid, and Barbara Christe • Team members: Department Chairs and Directors

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

The newly approved Biomedical Engineering Technology-BS program started developing more courses on the web.

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**Evidence of Progress for 2005-2006:**

Online courses are the ones that fill up first during registration.

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**Activities planned for 2006-2007:**

Motorsports certificate program may evolve into BA/BS program with participation from the Schools of Liberal Arts and Business.

A1.m. Continue to develop new academic initiatives appropriate to Central Indiana and beyond. Champions: Bill Conrad and Andrew Hsu Team members: Chairs, and Directors

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**
Actions taken for 2005-2006:

Two new certificate programs are in preparation. One is Motorsports Certificate which is part of the Mechanical Engineering Technology program and the other one is graduate level certificate in systems engineering.

Evidence of Progress for 2005-2006:
Curricular components of both certificate programs are in place.

Activities planned for 2006-2007:

We will publicize the Motorsports and Systems Engineering certificates.

A2. Support and enhance effective teaching.

A2.a. Continue to evaluate and implement teaching and administrative loads based on the expectations for teaching, research, and service. • Champion: H. Oner Yurtseven • Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

The newly approved Faculty Workload Guidelines have been implemented in several departments.

Evidence of Progress for 2005-2006:

The fall 2006 teaching loads of all full-time faculty members have been increased on a temporary basis to assist with the budget.

Activities planned for 2006-2007:

We may not be able to reduce the teaching loads as a result of decreasing enrollment and the necessary budget cuts in the part-time faculty budget.

A2.b. Increase the use of Oncourse technology in the teaching and learning process. Champion: Bill Conrad Team members: Department Chairs and Directors

Campus Planning Theme: Teaching and Learning
Secondary Goals:

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Secondary Goals.
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2005-2006:

School is in the process of renovating the ET Building basement to create computer laboratories with appropriate technology. All faculty members were sent notices to make more use of Oncourse in teaching.

Evidence of Progress for 2005-2006:

There is an increased use of Oncourse by faculty members as the school has now more mentors assisting new faculty learn how to use Oncourse.

Activities planned for 2006-2007:

Most efforts focus around promoting existing programs at the campus level such as Oncourse and use of the multimedia equipped classrooms. Most departments are actively exploring these options. CIT is exploring new frontiers of technology in the classroom such as wireless, PDAs and streaming video. The computer laboratories in ET basement will be donated with up to date computing and teaching equipment.

☑ A2.c. Increase support on the use of technology in the teaching and learning process. • Champion: H. Oner Yurtseven • Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

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 2005-2006:

Baseline renovation will be complete by September 2006.

Activities planned for 2006-2007:

Once the ET Basement is renovated, the new computer laboratories will have better technology support.

☑ A2.d. Increase support for faculty and staff in course preparation. • Champion: H. Oner Yurtseven • Team members: Department Chairs and Directors

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

time Frame: ongoing

actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of progress for 2005-2006:

No information is yet available.

Activities planned for 2006-2007:

We plan to have more on course support.

☑️ A2.e. Increase participation from each department in programs such as those conducted by the Office of Professional Development that emphasize teaching excellence. • Champion: H. Oner Yurtseven • Team Members: Department Chairs and Directors

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

Actions taken for 2005-2006:

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 2005-2006:

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 2006-2007:

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. • Champion: H. Oner Yurtseven • Team Members: Unit Board for Promotion and Tenure

Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing
Actions taken for 2005-2006:

First comprehensive school orientation for new faculty took place in fall 2004 for newly hired faculty members. Another one was completed in fall 2005.

Evidence of Progress for 2005-2006:

No data available yet.

Activities planned for 2006-2007:

Regular new faculty orientation will be conducted annually.

☐ A2.g. Increase the recognition of effective teaching. • Champion: H. Oner Yurtseven • Team Members: Department Chairs and Directors
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing

Actions taken for 2005-2006:

No action has been taken yet.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☐ A2.h. Develop a uniform school-wide orientation, training and mentoring program for part-time faculty with an emphasis on effective teaching. • Champion: Bill Conrad • Team members: Department Chairs and Directors
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing

Actions taken for 2005-2006:

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

Evidence of Progress for 2005-2006:
The feedback has been very positive from the adjunct faculty.

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**Activities planned for 2006-2007:**

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 computer hardware and software. • Champions: Bill Lin and Pat Fox

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

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**Actions taken for 2005-2006:**

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

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**Evidence of Progress for 2005-2006:**

Student feedback has somewhat improved in this area. More funds are needed.

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**Activities planned for 2006-2007:**

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. We also plan to take the issue of Student Technology Fee usage to the Engineering and Technology Student Council to get feedback from our students.

☑ A2. j. Increase the number of faculty and staff who attend engineering and technology education conferences and workshops.

- **Champion:** H. Oner Yurtseven • **Team Members:** Department Chairs and Directors

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

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**Actions taken for 2005-2006:**

More faculty were encouraged to attend ASEE conferences and workshops. Staff members were allocated modest funds for professional development.

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**Evidence of Progress for 2005-2006:**

No data is available.
Activities planned for 2006-2007:

There may be a setback on faculty travel funding due to budget difficulties.

☐ A2.k. Increase the number of faculty and staff who participate in the scholarship of teaching and learning. • Champion: H. Oner Yurtsever • Team members: Department Chairs and Directors
  
  **Campus Planning Theme:** Teaching and Learning
  **Secondary Goals:**
  **Sub Unit:** None
  **Time Frame:** Ongoing

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☐ A2.1. Develop a program of faculty conversations on good teaching in the school and in departments. • Champion: H. Oner Yurtsever • Team members: Department Chairs and Directors
  
  **Campus Planning Theme:** Teaching and Learning
  **Secondary Goals:**
  **Sub Unit:** None
  **Time Frame:** Ongoing

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☐ A3. Enhance undergraduate student learning and success.

☐ A3.a. Continue to improve student advising practices. • Champion: Bill Conrad • Team members: Department Chairs and Directors
  
  **Campus Planning Theme:** Teaching and Learning
  **Secondary Goals:**
  **Sub Unit:** None
  **Time Frame:** Ongoing
Actions taken for 2005-2006:

We planned more information exchange sessions with the University College advisors.

Evidence of Progress for 2005-2006:

No data available as yet.

Activities planned for 2006-2007:

We plan to start a group of technology program advisers as part of the Dean’s Office operation to address the freshman technology advising issues.

A3.b. Develop additional technology-based advising tools to assist students in monitoring degree progress. • Champion: Bill Conrad • Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

Plans of study for all degree programs, including graduate programs, have been coded.

Evidence of Progress for 2005-2006:

Auditing process is now more manageable at the department/program and the school levels.

Activities planned for 2006-2007:

More automated degree auditing process will be implemented.

A3.c. Ensure that all programs provide relevant and coordinated course offerings. • Champion: Bill Conrad • Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

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.

Evidence of Progress for 2005-2006:

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

Activities planned for 2006-2007:

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 the number of undergraduate student involvement in internship, co-op, and research experiences. • Champions: Terri Talbert-Hatch and Andrew Hsu

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

Actions taken for 2005-2006:

Promotional materials are updated. Industrial partnership database is updated. Monthly internship information sessions are regularly conducted for students.

Evidence of Progress for 2005-2006:

The number of students in the internship program again increased for 2005-06.

Activities planned for 2006-2007:

The continuing activities 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. Increase the amount of space for studying, meeting with other students, and working on team projects • Champions: Pat Fox and Gail Shiell

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

Actions taken for 2005-2006:

The student lounge areas on the second and third floors of ET Building have been renovated using the funds from
Evidence of Progress for 2005-2006:

More students use the newly renovated ET Building lounges.

Activities planned for 2006-2007:

Currently, there is no student lounge area in SL Building. Some benches for sitting and studying will be installed in the hallways. There will also be more space available in the renovated ET Lower Level.

☐ A3.f. Maintain ABET and other accreditation such as CIDA in applicable programs. • Champion: Bill Conrad • Team members: Department Chairs and Directors, and Sam White
   
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing

Actions taken for 2005-2006:

Currently, all applicable programs have ABET accreditation. Preparations for Architectural Technology, Computer Engineering Technology, Construction Technology, Electrical Engineering Technology, and Mechanical Engineering Technology programs ABET visits will be completed.

 Evidence of Progress for 2005-2006:

Computer and electrical engineering programs received 3 years of accreditation and mechanical engineering received full six years of accreditation.

Activities planned for 2006-2007:

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

☐ A3.g. Increase tutoring availability. • Champion: H. Oner Yurtseven • Team members: Department Chairs and Directors
   
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing

Actions taken for 2005-2006:

Each department/program uses part of the allocated budget to hire tutors.
Evidence of Progress for 2005-2006:

Students ask for tutors in several classes that we offer.

Activities planned for 2006-2007:

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

☐ A3.h. Expand career planning and placement services for students. • Champion: Terri Talbert-Hatch

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2005-2006:

Collaboration with IUPUI Career Service Office continues.

Evidence of Progress for 2005-2006:

There is only self-reported data on placement.

Activities planned for 2006-2007:

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.

☐ A3.i. Improve student laboratory and classroom experiences. • Champion: Bill Conrad • Team members: Department Chairs and Directors

**Campus Planning Theme:** Teaching and Learning

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

Actions taken for 2005-2006:

Equipment in the laboratories are upgraded on a regular basis to the extent the limited budget permits.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:
Faculty members regularly prepare and submit equipment proposals to NSF and industry.

A3.j. Improve student retention and graduation rates. • Champion: Bill Conrad • Team members: Department Chairs and Directors

**Campus Planning Theme:** Teaching and Learning

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

**Actions taken for 2005-2006:**

Improvements in student advising, providing tutors, and recruiting academically better prepared students appear to improve the student retention. Several students were nominated for leaderships awards and recognition. For 2005-06, thirteen of the Top 100 IUPUI students were from the school.

**Evidence of Progress for 2005-2006:**

Retention rate increased from 71% to 74% for freshman/sophomore students and from 84% to 85% for junior/senior students. The overall increase is from 76% to 79%.

There is also a slight improvement in the graduation rate.

**Activities planned for 2006-2007:**

1. Office of Student Services promotes 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.
4. Worked with IUPUI Housing Office to provide theme housing unit (Purdue House) for engineering and technology students.

A3.k. Continue benchmarking with peer universities and use the information in planning. • Champion: Bill Conrad • Team members: Department Chairs and Directors

**Campus Planning Theme:** Teaching and Learning

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

**Actions taken for 2005-2006:**

School has been using the benchmarking with the six universities which are IUPUIs peers.

**Evidence of Progress for 2005-2006:**

The comparative statistics from the peer institutions were used in budget presentations to IUPUI campus administration.
Activities planned for 2006-2007:

Benchmarking with industry has not been attempted yet.

A3.1. Develop a formal honors degree program. • Champion: Bill Conrad and Charles Feldhaus • Team members: Department Chairs and Directors
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: New

Actions taken for 2005-2006:

This is a new objective in 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

A3.1m. Develop a student development program that enhances student persistence and graduation in areas such as goal setting, motivation, student learning, and study skills. • Champion: Bill Conrad • Team members: Department Chairs and Directors
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: New

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

A3.n. 14. Increase student participation in professional societies and clubs. • Champion: Bill Conrad • Team members: Department Chairs and Directors
   Campus Planning Theme: Teaching and Learning
   Secondary Goals:
   Sub Unit: None
   Time Frame: New
Actions taken for 2005-2006:

This is a new objective for 2006-09 plan. &nbsp;

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☑ A3.o. Expand the use of awards and scholarships for continuing students to encourage them to excel. • Champion: Terri-Talbert Hatch and Paula Jenkins • Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan. &nbsp;

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

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

☑ A4.a. Increase financial support for graduate students through fellowships and assistantships, etc. • Champion: Andrew Hsu • Team Members: Department Chairs and Directors

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

Actions taken for 2005-2006:

School initiated a plan to offer tuition scholarships to graduate student that will cover the cost difference between
the in-state and out-of-state rates. In return, these students assist school for laboratory coverage, tutoring, and
grading. Some of the certificate programs offered in the school are for professional developments.

Evidence of Progress for 2005-2006:

The number of applicants and admitted graduate students started increasing.
Activities planned for 2006-2007:

The plan will continue subject to budget conditions.

☐ A4.b. Increase the support for grantsmanship to improve financial support for graduate students and post-doctoral fellows. • Champion: Andrew Hsu • Team members: Department Chairs and Directors

Campus Planning Theme: Teaching and Learning

Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☐ A4.c. Increase space and fiscal allocations for graduate degree programs. • Champion: Andrew Hsu • Team Members: Department Chairs and Directors

Campus Planning Theme: Teaching and Learning

Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2005-2006:

One TA position each were made available to ECE and ME departments for 2005-06 academic year towards the first year PhD student support. School unveiled plans to cover the tuition differential between the out-of-state and in-state for PhD students.

Evidence of Progress for 2005-2006:

The graduate student headcount increased.

Activities planned for 2006-2007:

If the budget permits, the number of Teaching Assistant positions for engineering departments will be increased in the future and tuition differentials will be covered for full-time RA’s in MS program.

☐ A4.d. Increase marketing efforts locally and internationally to attract highly qualified students. • Champions: Terri Talbert-Hutch and Andrew Hsu • Team Members: Department Chairs and Directors
Campus Planning Theme: Teaching and Learning
Secondary Goals: 
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2005-2006:

New graduate brochures have been developed and printed. The website has been updated. A group of graduate advisors go to Rose Hulman Institute of Technology every year to recruit new graduate students.

Evidence of Progress for 2005-2006:

Three graduate students have been recruited from Rose Hulman Institute of Technology since the school participated in its Graduate Fair three years ago.

Activities planned for 2006-2007:

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.

A4.e. Grow the Ph.D. programs and improve the quality of graduate programs • Champion: Andrew Hsu • Team members: Department Chairs and Appropriate Directors

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

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

A4.f. Increase the number of graduate courses offered • Champions: Andrew Hsu • Team members: Department Chairs and Directors

Campus Planning Theme: 
Secondary Goals: 
Sub Unit: None
Time Frame: New
Actions taken for 2005-2006:

This is a new objective for 2006-09 plan. &nbsp;

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☐ A4.g. Continue to develop new academic initiatives appropriate to Central Indiana • Champion: Bill Conrad and Andrew Hsu • Team members: Department Chairs and Program Directors

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

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan. &nbsp;

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☑ A4.h. Provide resources for graduate students to attend national research conferences • Champion: Andrew Hsu • Team Members: Department Chairs and Directors

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

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan. &nbsp;

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

 ☑ B1. Conduct world-class research as evidenced through scholarly and creative activities.
B1.a. Develop and/or maintain department-level research plans. Champion: Andrew Hsu. Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

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 2005-2006:

No feedback has been received yet.

Activities planned for 2006-2007:

The plan is being refined and it will be an ongoing activity.

B1.b. Increase funded research with grants or contracts from government agencies, industry, foundations, and/or other organizations. Champion: Andrew Hsu. Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

Faculty members were urged to apply for Federal earmark funds. Biomedical Engineering faculty continued submitting proposals to NIH. School continued its strong relationship with Raytheon, Rolls-Royce, Crane, Roche, Cummins, and others continue with frequent visits to industry sites, laboratory tours, faculty projects, and joint research proposals to State and federal agencies. We also arranged several faculty visits and presentations to these partner companies.

Evidence of Progress for 2005-2006:

Research income increased to $5,235,639 in 2004-05 from $3,438,458 in 2004-05.

Activities planned for 2006-2007:

Department chairs will meet with the research subcommittee 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 and staff capable of research, scholarship, and creative activity. Champion: Andrew Hsu. Team members: Department Chairs and Directors
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: ongoing

Actions taken for 2005-2006:

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 meets with most active research faculty members on individual basis, discusses how to provide service and support for their research. School pays more attention to productive research faculty, their concerns. We promote and publicize school faculty and their research.

Evidence of Progress for 2005-2006:

We were able to recruit two additional biomedical engineering faculty for 2006-07.

Activities planned for 2006-2007:

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.

☐ B2. Provide resources and support for faculty and staff development to increase scholarly activity and external funding.

☑ B2. Provide support to attend research-related professional development activities. • Champion: Andrew Hsu • Team members: Department Chairs and Directors

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

Actions taken for 2005-2006:

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.

Evidence of Progress for 2005-2006:

Faculty feedback so far has been tolerant and understanding.

Activities planned for 2006-2007:

The current practice may be suspended temporarily due to budget limitations.
B2.b. Provide mentorship to junior faculty members  •  Champion: Andrew Hsu  •  Team members: Department Chairs and Directors

**Campus Planning Theme:** Research, Scholarship and Creative Activity

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

Grant writing and budgeting workshops and orientation sessions were conducted for new faculty members.

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**Evidence of Progress for 2005-2006:**

Although the number of research proposals submitted decreased from 81 in 2004-05 to 57 in 2005-06, the total research income increased.

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**Activities planned for 2006-2007:**

Orientation activities and also facilitation of meetings with industry partners and senior research faculty will continue.

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B2.c. Provide training for faculty on better proposal writing, etc  •  Champion: Andrew Hsu  •  Team members: Department Chairs and Directors

**Campus Planning Theme:** Research, Scholarship and Creative Activity

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

School encourages faculty to attend OPD sponsored workshops on proposal writing. At the beginning of every academic year part of the orientation workshop for new faculty includes proposal writing.

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**Evidence of Progress for 2005-2006:**

Only few faculty members used the assistance provided so far.

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**Activities planned for 2006-2007:**

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

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B2.d. Provide seed funding for research initiation and proposal generation.  •  Champion: Andrew Hsu  •  Team members: Department Chairs and Directors

**Campus Planning Theme:** Research, Scholarship and Creative Activity

**Secondary Goals:**

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Sub Unit: None
Time Frame: Ongoing

Actions taken for 2005-2006:

School provided modest support for research initiation as part of the start-up funds.

Evidence of Progress for 2005-2006:

Number of faculty developed full proposals using the seed funds.

Activities planned for 2006-2007:

The number of the research seed awards will not be increased due to budgetary constraints.

☑ B2 e. Adjust teaching and administrative loads based on the expectations for teaching, research, and service to improve research productivities • Champion: H. Oner Yurtseven • Team Members: Department Chairs and Directors

Campus Planning Theme: Research, Scholarship and Creative Activity

Secondary Goals:
Sub Unit: None
Time Frame: New

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☑ B3. Enhance infrastructure for scholarly activity.

☑ B3 a. Increase and/or reallocate physical space to improve research environment • Champions: Andrew Hsu and Patricia Fox • Team members: Department Chairs and Directors

Campus Planning Theme: Research, Scholarship and Creative Activity

Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2005-2006:

Renovation of ET Lower Level will provide additional space for the school.
Evidence of Progress for 2005-2006:

Plans have been prepared with participation by department chairs, directors, and research faculty.

Activities planned for 2006-2007:

Once the ET Lower Level renovation is complete there will be additional space availability for research purposes.

☑️ B3.b. Continue to enhance research-related resource sharing among departments, schools, and campuses. • Champion: Andrew Hsu • Team members: Department Chairs and Directors

Campus Planning Theme: Research, Scholarship and Creative Activity

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2005-2006:

The three engineering departments continue sharing the research laboratory space and equipment.

Evidence of Progress for 2005-2006:

Departments have been consolidating the teaching and research lab spaces.

Activities planned for 2006-2007:

With the completion of ET Lower Level renovation there will be additional research space for biomedical engineering.

☑️ B3.c. Increase intellectual property generation and technology transfer through IURTC and other research incubators. • Champion: Andrew Hsu • Team members: Department Chairs and Directors

Campus Planning Theme: Research, Scholarship and Creative Activity

Secondary Goals:

Sub Unit: None

Time Frame: New

Actions taken for 2005-2006:

This is a new objective for 2006-09.

Evidence of Progress for 2005-2006:
Activities planned for 2006-2007:

- **B3.d.** Develop and/or maintain local and national industry relationships and establish long term partnerships • Champion: Andrew Hsu • Team members: Department Chairs and Directors 
  - **Campus Planning Theme:** Research, Scholarship and Creative Activity 
  - **Secondary Goals:**
  - **Sub Unit:** None
  - **Time Frame:** Ongoing

Actions taken for 2005-2006:

Through Dean’s Industrial Advisory Council (DIAC), our research partnership with industry is on the agenda every quarter. DIAC has a research subcommittee working closely with the Associate Dean for Research and Graduate Programs in the school.

Evidence of Progress for 2005-2006:

There are number of research contracts with Rolls Royce and Raytheon.

Activities planned for 2006-2007:

The planning for collaboration with DIAC will continue.

- **B3.e.** Provide resources to increase participation in Undergraduate Research Programs • Champion: Andrew Hsu • Team members: Department Chairs and Directors 
  - **Campus Planning Theme:** Research, Scholarship and Creative Activity 
  - **Secondary Goals:**
  - **Sub Unit:** None
  - **Time Frame:** Ongoing

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

- **C1.** Enhance capacity for engagement.
C1.a. Review promotion and tenure documents to reflect renewed emphasis on civic engagement (e.g. definitions; measurement). • Champion: H. Öner Yurteseven • Team Members: Unit Board for Promotion and Tenure

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

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.

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**Evidence of Progress for 2005-2006:**

We expect the revised version of the promotion and tenure document to be available and enforced by 2007-08 academic year.

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**Activities planned for 2006-2007:**

The document will be revisited by the Faculty Senate.

C1.b. Promote school-wide sense of responsibility and awareness of civic engagement. • Champion: Paula Jenkins • Team Members: Department Chairs and Program Directors

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

We want to have a better record keeping and inventory of civic engagement related activities. The IUPUI student chapter of "Engineers Without Borders" was founded.

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**Evidence of Progress for 2005-2006:**

There is more student interest in civic engagement related projects.

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**Activities planned for 2006-2007:**

Organizations such as "Engineers without Borders" will be encouraged to participate in local and international projects.

C1.c. Increase service-learning opportunities for students. • Champion: Bill Conrad • Team Members: Department Chairs and Directors

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

Actions taken for 2005-2006:

School received the second "Engaged Department" grant from IUPUI Center for Service Learning to start a pilot EPICS program within CIT.

Evidence of Progress for 2005-2006:

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 2006-2007:

More events are planned with IUPUI center for Service Learning. EPICS program student projects will be designed.

☑ C1.d. Increase international outreach efforts. • Champion: Tim Diemer • Team Members: Department Chairs and Program Directors

**Campus Planning Theme:** Campus Climate for Diversity, Civic Engagement

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

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☑ C2. Increase engagement activities, partnerships, and services.

☑ C2.a. Continue to increase quality and effectiveness relative to advisory boards for each department. • Champion: Paula Jenkins • Team Members: Department Chairs and Directors

**Campus Planning Theme:** Civic Engagement

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

Actions taken for 2005-2006:
All programs and departments have working industry advisory groups.

Evidence of Progress for 2005-2006:

Industry advisory groups have been very influential and effective in assisting the department and programs with curricula, internship and coop positions, teaching, and faculty research.

Activities planned for 2006-2007:

We plan to have a better coordination of the meetings of these boards. Once a year, all advisory groups, including Dean’s Industrial Advisory Council and Alumni Board, hold a joint meeting for a half day. This proved to be a useful activity to help school with strategic planning.

☑ C2.b. Increase interaction with local high schools (e.g. student outreach; teacher training). • Champions: Terri Talbert-Hatch and Charles Feldhaus • Team Members: Department Chairs and Directors.

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

Actions taken for 2005-2006:

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 2005-2006:

Friday Labs have been very popular among the high school students and the number of high schools involved in PLTW has increased.

Activities planned for 2006-2007:

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.
4. Involve partner high schools in Project Lead The Way program.

☑ C2.c. Increase initiatives and interaction for specific target populations • Champions: Sam White and Patrick Gee • Team Members: Department Chairs and Directors

   Campus Planning Theme: Civic Engagement
   Secondary Goals:
   Sub Unit: None
   Time Frame: Ongoing
Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

☑ C2.d. Develop appropriate mechanisms for external requests related to civic engagement to be aligned with School resources and assets. • Champion: Paula Jenkins • Team Members: Department Chairs and Directors

Campus Planning Theme: Civic Engagement

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2005-2006:

School collaborated with the IUPUI Solution Center for student projects and internships.

Evidence of Progress for 2005-2006:

No progress data is yet available.

Activities planned for 2006-2007:

More interaction is planned with the IUPUI Solution Center and the Internship Office.

☑ C2.e. Expand industry partnerships relative to student employment opportunities such as scope and breadth of career fairs, selection as preferred recruitment partner. • Champions: Terri Talbert-Hatch, Josh Killey, and all external advisory board members • Team Members: Department Chairs and Directors.

Campus Planning Theme: Civic Engagement

Secondary Goals:

Sub Unit: None

Time Frame: Ongoing

Actions taken for 2005-2006:

School assists IUPUI Career Center in Campus Job Fair event. Other job fair opportunities are promoted and announced to students.
School Student Council organized and ran successful Job Fair.

Evidence of Progress for 2005-2006:

The feedback from our industry partners is positive; no one attended the new Job Fair.
Activities planned for 2006-2007:

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. Contribute to economic, cultural and civic development of Indianapolis, Central Indiana and the State.

C3.a. Develop a listing of faculty and staff expertise, as well as industry expertise database that is functional and accessible via web delivery. • Champions: Andrew Hsu and Paula Jenkins • Team Members: Department Chairs, Faculty and CNC

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

Actions taken for 2005-2006:

This is a new objective for 2006-09 plan.

Evidence of Progress for 2005-2006:

Activities planned for 2006-2007:

C3.b. Increase involvement in area economic development activities and research parks. • Champion: Andrew Hsu and DIAC • Team Members: Department Chairs and Directors

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

Actions taken for 2005-2006:

One ME faculty and one CIT faculty members have 20% release time 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 organizations. Our undergraduate and graduate students take part in these projects.

Evidence of Progress for 2005-2006:

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 2006-2007:

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.c. Develop better ways of identifying new markets and providing unmet needs. • Champions: Andrew Hsu, Terri Talbert-Hatch and DIAC • Team Members: Department Chairs and Directors.

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

Dean’s Industrial Advisory Council (DIAC) and department/program advisory committees were consulted and surveyed about the new markets. The two areas emerged are motorsports and systems engineering.

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**Evidence of Progress for 2005-2006:**

Committees 1 and 3 have already met and undergraduate certificate program in motorsports and graduate certificate program in systems engineering are in the planning stages.

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**Activities planned for 2006-2007:**

The three committees were formed to put together action plans. They are:

1. Internal Motorsports Committee composed of representatives from the school as well as the School of Liberal Arts, and TCEM.
2. External Motorsport Committee composed of representatives from Vincennes University, Purdue University, WL, Marian College, and various reaching organizations.
3. Systems Engineering Committee composed of two school faculty members and representatives from Eli Lilly, Raytheon, and Rolls Royce Corporation.

☐ C3.d. Develop outreach efforts for specialized populations (e.g. adults with some college but no degree). • Champion: Terri Talbert-Hatch • Team Members: Ivy Tech, Vincennes and IUPUC

**Campus Planning Theme:** Civic Engagement

**Secondary Goals:**

**Sub Unit:** None

**Time Frame:** Ongoing

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**Actions taken for 2005-2006:**

School continues to provide advising and career counseling for displaced industry workers.

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**Evidence of Progress for 2005-2006:**

The number of adults in this category has been low during the year.
Activities planned for 2006-2007:

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

Fiscal Health

Fiscal Health for 2006-07

1. Internal planning and budgeting process – Budget plans and decisions are discussed and made with the School administration, which includes the department chairs, deans, and directors, as well as the School’s Faculty Budgetary Affairs Committee. This committee is made up of five elected faculty members, the Dean and the Associate Dean for Administration and Finance. This process is very helpful and insightful. It helps clarify information in the budgetary and planning process for faculty and for School administrators. The School operates in an open financial environment. This year in particular the Dean gave a presentation at the Faculty Convocation in the fall 2006 about the School’s fiscal financial situation and he also gave a presentation to the School’s Staff Advisory Committee on the same subject.

2. Current situation - The School of Engineering and Technology has experienced five semesters of decreasing enrollment in almost all of its programs, some more than others. In addition, the School has invested its accumulated cash in the renovation of the ET Building lower level. As a result, the School is now experiencing some financial difficulties. We will need to take some action in order for the School not to be over budgeted or over extended. The Dean summarized this situation to faculty and staff at the fall 2006 Faculty Convocation.

   The School has always been fiscally conservative, under-budgeting our projected credit hour potential. Over time, however, enrollment decline caused our budgeted student credit hours to become very close to actual student credit hours. During the past two years, the actual credit hours have been less than our budgeted credit hours. Last year, the School was not able to reach our budgeted student credit hours; however, the School was able to reach our budgeted student fees for 2005-06. This year, 2006-07, the School will experience the same type of problem. We will fall short of the credit hour projection but we will reach our budgeted fees for 2006-07. The School will adjust our budget to include the income we receive from Butler students this year, which will allow us to end the year in with positive income balance. However, given the decline in credit hours, the School is planning to decrease its budgeted base budget for 2007-08 to correct a future financial issue.

3. Cash - In this coming year we will rely on, the School will temporarily change some of its rules about returning salary savings from contract and grant income and the sharing of indirect cost with principal investigators and departments until the School can recover its cash reserve. The School has discussed ways in which all departments can boost program enrollments. In addition, we will look at decreasing our dependence on cash. Several vacant faculty positions will not be filled without serious consideration and overview of programs and department needs. All of these issues will be accomplished with the input of all parties, School administration and Faculty Budgetary Affairs Committee. The School plans to bring its reserve shortfall to $424,225 this year, 2006-07. During closing 2005-06 some of the reserve shortfall was used bring the balance down to $221,465.

4. Technology Fee - The School is highly technical in nature and our technology fee hardly makes a dent in keeping abreast with technology changes. Currently, we use the technology funds to support one technical support person and to upgrade our computer laboratories on a rotating basis. The 2005-06 tech fee funds were used to fund the technical support person ($62,086.19), purchase some of the laboratory furniture, computer workstation upgrades, and memory upgrades ($85,726.82) for the laboratories in the newly renovated lower level of the ET building.
 Needless to say these funds are augmented with other departmental and School cash or base funding to continuously upgrade computer labs throughout the year as funding is available. Unfortunately, the School loses a large portion of its technology fee income to UITS.

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**Reallocation Plan**

**Other Question(s)**

1) **Doubling goals:** In what ways has and will your responsibility center contribute to the Chancellor’s doubling goals for enrollment (retention and graduation rates and degree conferrals), research and scholarship (grants and contracts), and civic engagement (service learning, internships, community collaborations)?

School awarded 289 BS degrees during 2002-03. Instead of doubling this number by 2010-11, the school chose a modest projection of 379 BS degrees to be awarded by 2011. This is feasible as the newly introduced BS programs will provide the future growth. The first group of Interior Design Technology-BS degrees were awarded in May 2006. The Biomedical Engineering-BS graduation will start in May 2008 and the most recent Biomedical Engineering Technology-BS degrees will be awarded starting December 2008.

The summary of the external grants and contracts for the school is given in the table below. Based on these figures, the school met and exceeded the doubling goal for sponsored research by the end of 2005-06 fiscal year. Our goal is to triple the research income by 2011.

<table>
<thead>
<tr>
<th></th>
<th>FY02-03</th>
<th>FY03-04</th>
<th>FY04-05</th>
<th>FY05-06</th>
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<tr>
<td>Proposals</td>
<td>59</td>
<td>71</td>
<td>85</td>
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<tr>
<td>Awards</td>
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<td>$2,247,986</td>
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<td>$579,335</td>
<td>$1,393,325</td>
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<tr>
<td>Expenditures</td>
<td>$1,803,639</td>
<td>$1,774,505</td>
<td>$2,327,715</td>
<td>$3,892,329*</td>
</tr>
</tbody>
</table>

The number of internships for summer 2003 and spring 2004 was 77. Using the comparable time frame of summer 2005 and spring 2006 number is 238. Thus, the number of internships almost tripled and the school plan is to further increase this number. Other engagement activities include the formation of the IUPUI student chapter of Engineers Without Border with resulting internship activities in the Hurricane Katrina region, Indonesia and another planned activity in Thailand.

2) **Diversity:** What actions have you taken and what results have you achieved in retaining and graduating a diverse student body; enhancing diversity in research, scholarship, and creative activity; and recruiting, developing, and supporting diverse faculty and staff?

In August 2005, Dr. Sam White, Jr. joined our school as Clinical Professor of Electrical and Computer Engineering as well as the Senior Advisor to Dean for Diversity and Engagement. Campus administration provided the funds for 2005-06. The School of Engineering and Technology will contribute 25%, 50%, and 75% of the funds for 2006-07 and beyond. Dr. White was former dean of engineering at Hampton University and Jackson State University. He is in the process of putting together a comprehensive diversity plan for the school, to include recruitment and retention of more diverse body of students, faculty, and staff. He has focused on our long standing Minority Engineering Advancement (MEAP) program to expand its work and the following year...
3) **Campus collaboration:** In what ways has your unit collaborated with other units to enhance teaching and learning and/or research and scholarship? What plans do you have to strengthen collaborative activities in coming years?

The School has close ties with the University College to provide good academic counseling and Learning Community courses to students in University College who plan to transfer to our school. Due to large turnover of academic advisors at the University College, our school updates the advising and transfer information frequently.

The research collaboration continues with the School of Medicine as the joint faculty appointments of the Department of Biomedical Engineering faculty with Medicine faculty became a routine practice. Three of the Biomedical Engineering faculty members, Charles Turner, Hiroki Yokota, and Ghassan Kassab have large portion of their research activity in the School of Medicine facilities.

Our school is one of the partners in the Indiana Center for Rehabilitation Science and Engineering, led by the School of Health and Rehabilitation Science. When more funding becomes available, there will be joint faculty and research appointment.

The GO GREEN program, for sustainable and environmentaly sound design, has international component in Germany and the students who participated in the program during the summer of 2006 visited several green design facilities in Germany.

4) **International scholarship:** How extensively are faculty in your school involved in research on international topics or in collaborations with international colleagues? Please cite some examples.

Over one third of school’s seventy faculty members have some form of international collaboration either through the exchange agreements that the school signed in the past or through joint authorship of journal and conference publications with researchers from our partner institutions or through the supervision of international graduate students during their MS or PhD studies. Samples of the faculty work in this area are:

- Jan Cowan presented the paper at the Architect’s Association of Bali, Indonesia: Restoring Communities in Aceh: Industrialization and Servicisation Synergies for Development, July 29, 2005, Denaspar, Bali Indonesia
- Maurice Bluestein is a member, Commission 6 of the International Society for Biometeorology.
- Mark Bannatyne is member of Programme Committee (Chair of Animation Section) Information Visualisation Conference (IV2005), London, England and member, Program Committee (Graphicon 2005 (Computer Graphics Conference, Novosibersk, Russia), and a member, Programme Committee for CGIV05(Computer Graphics, Imaging and Visualization, 2005, Beijing, PR China)
- Russ Eberhart was appointed as Guest Professor of Southeast University in Nanjing, P. R. China
- Akin Ecer mentored two French students from University of Mediterrenean University in their research project.
- Akin Ecer organized International Conference on Parallel Computation in Pusan, South Korea in May 2006.
- Mohamed El-Sharkawy was a speaker at the GSAX Conference in Amsterdam, Holland.
- Andrew Hsu collaborated with Korean National Institute of Science and Technology, Dr. D.T. Lee on fuel cell membrane fabrication and testing (using chemical vapor deposition method.)
- Stephen Hundley, Liz Coles, Pete Hylton, and Pat Fox did GO GREEN Teaching and Research - Mannheim, Germany, July 2005
- Pete Hylton coordinated potential study abroad opportunities with several universities in the United Kingdom relative to motorsports. activities
- Kim Chul worked with Professor Chin of SKK University and DoAll Information Tech. Inc. to develop RFID and 4D CAD technologies to implement in the future research projects.

5) **Internationalization of curriculum:** How extensive are international perspectives and content in curricula in your school? Are international perspectives present in the core requirements for undergraduate degrees? Are there degree or certificate programs with an international emphasis? Do you have study abroad programs?

School of Engineering and Technology has very strong relationship with direct international content and has the aim of continuing...
School of Engineering and Technology has only one course which has direct international content and has the aim of preparing our domestic students with international perspective. OLS 327: Supervision. Global Workforce is an online course taught by the Director of International Services in the school, Tim Diemer.

In collaboration with the School of Liberal Arts, we offer two five-year dual degrees; one in engineering and German and another in engineering and French. Engineering/German program has already two students graduated from the program. The international partner universities are Heilbronn University in Germany and University of Mediterranean in France. School plans to introduce another five-year dual degree program in engineering/Spanish.

During 2005-06, the school signed three additional MOU’s for international student and faculty exchange as well as dual degree two-plus-two programs. These partners are Fatih University and TOBB University of Economics and Technology; both in Turkey and University of Namibia. Initial talks were held with the Pukyong National University, Korea at IUPUI and there will be a follow up visit to Pukyong next academic year. Also, a group of International Program Coordinator, Marilyn Mangin, again participated annual international student recruitment fair visiting seven countries in the South East Asia region with a group of several US university recruiters. The Annual Hi Tea for alumni group in Malaysia was held in Kuala Lumpur where dean of the school also attended. Over 100 alumni and their families attended the event.

The international internship program that the school offers attracted 8 students from Yeditepe University, Turkey during the summer of 2006.