2011-2012 Engineering & Technology

Section	Document Name

Mission

Vision - The Purdue School of Engineering and Technology, IUPUI will be regarded as one of America's outstanding urban schools of engineering and technology, recognized regionally, nationally, and internationally for its excellence in teaching, research, creative activities, and civic engagement.

Mission - The Purdue School of Engineering and Technology, IUPUI serves the greater Indianapolis metropolitan area, the State of Indiana, and the nation by providing a high-quality learning environment informed through the discovery and dissemination of knowledge via the scholarship of teaching and learning, research, creative activities, and civic engagement.

Values - The core values that define, inform, and guide the decisions within our School are as follows:

- *Excellence:* Academic excellence is our top priority. We pursue excellence in learning, teaching, research, and civic engagement as the highest indicators of successful achievement.
- *Competition:* Competition enhances innovation. We strive to compete at the highest levels in the pursuit of extramural support for our students, as well as for our research and creative activities.
- *Collaboration:* We promote teamwork and partnerships for solving problems and disseminating and transferring knowledge, thus multiplying our accomplishments.
- *Diversity:* We encourage intergenerational, multi-ethnic, and international diversity of our research, curricula, and pedagogy and of our faculty, staff, and student composition.
- *Leadership:* We encourage and reward effective leadership at every level in the School.
- *Location:* We are fortunate to be located in the cosmopolitan city of Indianapolis and we strive to capitalize on the urban setting to address the challenges of a global society.
- *Professionalism:* We foster and reward high standards of collegiality and integrity.
- *Responsiveness:* We are committed to community and professional service to meet the needs of our stakeholders.
- *Improvement:* We strive to continuously improve the implementation of our mission through efficient assessment and evaluation processes.
- *Identity:* We take pride in the Purdue University and Indiana University affiliations, while striving to advance the IUPUI campus identity, image, and reputation.

Goals and Objectives

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

A1.a. Continue to improve process for recruiting students.

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

Actions taken for 2011-2012:

<!--[if !supportLists]--> • <!--[endif]-->Focused on increasing yield of admitted students with activities such a spring preview days

<!--[if !supportLists]--> • <!--[endif]-->Promoted individual visits for prospective and admitted students

<!--[if !supportLists]--> • <!--[endif]-->Continued to promote summer camps, such as POWER for high school girls and MEAP for under-represented students

<!--[if !supportLists]--> • Continued to emphasize strategic recruitment geographic locations and partners: Puerto Rico, S.E. Asia, Seattle Community Colleges, Ivy Tech, and Indiana PLTW schools

<!--[if !supportLists]--> • Continued collaboration with the Office of Admissions for strategic communications with prospective and admitted students

<!--[if !supportLists]--> • <!--[endif]-->Hosted a Project Lead the Way (PLTW) student poster session – expanding outreach to PLTW students, teachers, and guidance counselors

<!--[if !supportLists]--> • <!--[endif]-->Utilized student ambassadors for not only face to face visits but for outreach to prospective and admitted students

<!--[if !supportLists]--> • Continued HBCU recruitment activities via Atlanta University Consortium (AUC) 3 + 2 program in partnership with the Office for Diversity, Equity, and Inclusion

<!--[if !supportLists]--> • <!--[endif]-->Enhanced the prospective student webpage

<!--[if !supportLists]--> • Held first annual event to promote E&T programs to home school families

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Evidence of Progress for 2011-2012:

<!--[if !supportLists]--> • <!--[endif]-->Applicants were up 2% as compared to 2010 for direct admits

- Held 25 on campus recruitment events bringing more than 1500 prospective and/or admitted students to E & T

<!--[if !supportLists]--> • Conducted 159 one-on-one prospective student visits in E&T

<!--[if !supportLists]--> • <!--[endif]-->Hosted more than 160 guidance counselors from Puerto Rico, Malaysia, Thailand, China, as well as 75 from Indiana PLTW high schools

- Six AUC students visited campus

<!--[if !supportLists]--> • <!--[endif]-->Received 688 requests for information generated from the prospective student webpage

<!--[if !supportLists]--> • <!--[endif]-->93% of new first year applicants were admitted. It is clear that better qualified students are applying

<!--[if !supportLists]--> • Approximately 50 home school families attended first annual home school day

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Activities planned for 2012-2013:

<!--[if !supportLists]--> • Continue strategic focus on transfer students and continue visits to Ivy Tech, Vincennes, AUC

<!--[if !supportLists]--> • <!--[endif]-->Hire grad assistant to develop training and recruitment strategies utilizing Talisma

<!--[if !supportLists]--> • Continue to utilize International Peer Mentors for outreach to international student applicants and admits

<!--[if !supportLists]--> • <!--[endif]-->Promote new housing and STEM bridge program

<!--[if !supportLists]--> • Increase collaboration with departments for recruitment and programming for high school students

<!--[if !supportLists]--> • <!--[endif]-->Enhance home school day program

<!--[if !supportLists]--> • Continue to work with alumni association to develop recruitment activities

A1.b. Increase marketing efforts for academic programs.

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

Actions taken for 2011-2012:

- Continue to work with Westcomm on targetted marketing opportunities, including motorsports engineering and related events surrounding the month of May in Indianapolis
- Purchased advetisements in high school magazines featuring E&T programs
- Developed posters promoting individual students for them to take back to their high schools
- Enhanced the future student webpage and increased utilization of Facebook
- Collaborated with Office of Admissions to send information regarding the energy engineering program to prospective and admitted students in their database

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Evidence of Progress for 2011-2012:

- The Motorsports Engineering program was featured in the Indianapolis Star, WTHR, WRTV, WISH-TV, and various other Central Indiana news media outlets highlighting student and faculty involvement during the month of May at the Indianapolis Motor Speedway

- The Motorsports Engineering program was featured in Racer Magazine as the nation's only four-year degree program in Motorsports Engineering. The article highlighted the inaugural graduating class and other accomplishments

- Undergraduate applicant pool consisted of better prepared students as evidenced by 93% acceptance

- Freshmen FTE increased 31.5% from Fall 2011 to Fall 2012
- Masters FTE increased by 23.5% from Fall 2011 to Fall 2012

- Per the American Society for Engineering Education, E&T continues to rank #1 nationally for the number of bachelor's engineering technology degrees awarded to women, ranks #2 nationally for the number of bachelor's engineering technology degrees awarded, and ranks #3 nationally for total engineering technology enrollment.

Activities planned for 2012-2013:

- Upgrade website and make information up-to-date and relevant
- Expand the marketing of unique E&T programs, in particular motorsports and energy engineering
- Continue targeted international recruitment trips that complement enrollment shaping initiatives

- Collaborate with Admissions and utilize Talisma for strategic marketing campaigns
- Develop brochures and marketing strategy for new TCM BS program

A1.c. Increase the number of classes, certificates, and degree programs offered via nontraditional delivery methods.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued to develop and teach more online courses as well as one-week intensive courses during the Winter break, Spring Break, and throughout the summer
- Increased the number of late-start classes to accommodate students who need to maintain full-time enrollment status but must make schedule adjustments after the official add-drop period ends
- Continued to expand the scope of Biomedical Engineering Technology-BS program online courses
- Continued to strengthen the fully-online Facilities Management-MS degree program

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Evidence of Progress for 2011-2012:

- Student demand for online courses continues to increase, as evidenced by the number of sections that fill quickly and the waitlist for online courses
- Increase in credit hours for E&T may be partially attributed to some of these nontraditional delivery method initiatives

Activities planned for 2012-2013:

- Pursue strategic opportunies for developing and hosting MOOCs
- Selectively expand late-start and concentrated course offerings to other courses, programs, and departments, as appropriate
- Music Technology-BS and Music Technology-MS programs will add more online courses
- Selectively expand nontraditional delivery offerings to other programs and departments, as appropriate

A2. Support and enhance effective teaching

A2.a. Increase support for faculty and staff in course preparation.

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

Actions taken for 2011-2012:

- Continued a uniform school-wide orientation, training, and mentoring program for junior faculty and part-time faculty with an emphasis on teaching excellence
- Continued staff assistance on Oncourse that has been available through UITS
- Provided graders, teaching assistants, and other support to selective faculty, programs, and departments
- Ensured that each newly hired full-time faculty member was provided a mentor

Evidence of Progress for 2011-2012:

- All newly hired faculty offered Oncourse support

Activities planned for 2012-2013:

- Continue needs assessment with department chairs, course coordinators, and associate faculty to determine on going needs and opportunities for professional development
- Identify additional teaching assistant needs in programs and prioritize resource allocations accordingly

A2.b. Increase participation from each department in programs such those conducted by the Center for Teaching and Learning that emphasize teaching excellence.

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

Actions taken for 2011-2012:

- Continued to promote Center for Teaching and Learning (CTL) offerings to faculty and staff within the School and encouraged their participation.
- Arranged for newly hired and probationary faculty to have consultations with CTL representatives.
- Provided input to CTL by ensuring E&T representation on CTL Advisory Board.

Evidence of Progress for 2011-2012:

- The number of faculty preparing proposals for teaching grants, the number of faculty using CTL services, and the number of faculty involved in the Scholarship of Teaching and Learning have been steadily increasing
- Competitive grants to support student learning were received from the National Science Foundation including: S-STEM Clear Scholars in Engineering Program

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Activities planned for 2012-2013:

- Continue to leverage CTL resources, in particular to support proposal development for external grants in teaching-related areas

A2.c. Increase the recognition of effective teaching.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Maintained E&T-based awards for teaching excellence
- Continued the recognition of effective teaching through university-sponsored Trustees' Teaching Award program
- Encouraged faculty to pursue campus-based and external awards for teaching excellence

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Evidence of Progress for 2011-2012:

- Provided 5 faculty members with Trustees' Teaching Awards
- Provided 3 faculty members with School-based teaching-related awards

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Activities planned for 2012-2013:

- Continue teaching recognition awards programs
- Selectively reward faculty for innovations and impact in teaching that contribute to the enhancement of the School's national reputation in this area

A2.d. Continued a program of faculty conversations on effective teaching in the school and in departments.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued a series of Lunch-n-Learn workshops targeted to faculty and staff for the purposes of enhancing professional development in teaching

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Evidence of Progress for 2011-2012:

- Attendance at and feedback from Lunch-n-Learn series is promising

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Activities planned for 2012-2013:

- Ongoing evaluation, refinement, and institutionalizing Lunch-n-Learn series will continue

A3. Enhance undergraduate student learning and success

A3.a. Maintain accreditation by ABET, CIDA, NASM. Pursue inaugural accreditation for programs when eligible.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued School-wide Assessment Committee as a sub-committee of the E&T Faculty Senate
- Prepared interim report and submitted it to the EAC of ABET to respond to a weakness cited in the ME program from the Fall 2010 on-site visit

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Evidence of Progress for 2011-2012:

- The weakness was resolved in the EAC of ABET final statement for the ME program. It is scheduled for next general review, along with the other EAC of ABET accredited engineering programs

Activities planned for 2012-2013:

- Continue preparation for ETAC of ABET review of Technology programs with on-site visit in Fall of 2013
- Continue School-wide Assessment Committee as a sub-committee of the E&T Faculty Senate

A3.b. Expand career planning and placement services for students.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Expanded the breadth of professional development opportunities available for students through the Office of Career Services and Professional Development in E&T
- Conducted E&T-specific workshops on the following topics: Career Planning, Career and Internship Resources, Employer Resume Reviews, Mock Interviews, Employer Information Sessions, etc.
- Conducted an alumni survey to capture placement information and salary data

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Evidence of Progress for 2011-2012:

- Numerous engineering and technology students participated in on-campus interviews that took place in the Office of Career Services and Professional Development in E&T
- Numerous students attended the workshops conducted by the Office of Career Services and Professional Development in E&T
- Starting salaries for many E&T graduates exceeded national averages per the alumni survey data

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Activities planned for 2012-2013:

- Further advance the professional development opportunities to include: additional discipline-specific workshops, online workshops, alumni mentoring, and career planning courses
- Increase the number of businesses and alumni that come to campus to talk to students about career opportunities

A3.c. Improve student laboratory and classroom experiences.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued to ensure that equipment in the laboratories is upgraded on a regular basis

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Evidence of Progress for 2011-2012:

- Evidence from focus groups, National Survey of Student Engagement, and Continuing Student Satisfaction Survey indicates that students appreciate up-to-date laboratory environments

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Activities planned for 2012-2013:

- Encourage more faculty members to prepare and submit course, curriculum, and laboratory improvement proposals to NSF, industry, and other potential funding sources
- Use the E&T "Program Fee" charged to our majors to continue to upgrade laboratory equipment

A3.d. Improve student retention and graduation rates.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued to make improvements in student advising via the New Student Academic Advising Center, provided tutors, and recruited academically better-prepared students
- Nominated several students for leadership awards and recognition

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Evidence of Progress for 2011-2012:

- Analyzing a 5-year window of time, the average number of degrees conferred by E&T has increased over the past 2 years by approximately 14% as compared to the average of the prior 3 years
- The retention rates were relatively flat this past year after several years of improvment

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Activities planned for 2012-2013:

- Office of Student Services in E&T will continue promoting activities on campus that include prospective employers
- Office of Student Services in E&T will continue promoting student council and other student organizations to students

- Office of Student Services in E&T will continue developing plan to offer scholarships to part-time, high achieving, and current students, and it will work with IUPUI Housing Office to provide theme housing unit (Purdue House) for engineering and technology students

A3.f. Increase student participation in professional societies and clubs.

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

Actions taken for 2011-2012:

- Continued to involve the Dean's Industrial Advisory Committee to work with student organizations to develop plans, funding opportunities, and other initiatives
- Continued to require all students receiving an E&T-based scholarship to attend at least one student organization meeting
- Continued to encourage student organizations to apply for campus-level funding to support their specific events
- Continued to leverage the tutoring provided by some of these organizations to market to interested students
- Continued to sponsor National Engineers Week activities
- Continued Ice Cream social in the fall for student organization outreach
- Continued student professional organizations participation in the new student BBQ each fall
- Continued promoting new student organizations during orientations
- Secured donor for Student Innovation fund

Evidence of Progress for 2011-2012:

- <!--[endif]-->New engineering honor society began Tau Beta Zeta

<!--[if !supportLists]--> • <!--[endif]-->Awarded first Student Innovation grant from recently endowed fund

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Activities planned for 2012-2013:

- Continue to enhance National Engineers week activities with one-day leadership program, social and community service activities
- Engineering Technology Student Council (ETSC) will continue to support a one-day leadership development program for organization leaders

- E&T will continue to require all student organizations to be represented in meetings to receive funding and they each report out on upcoming activities
- E&T will continue to provide up to $1500 for student organizations to attend professional conferences

A4. Provide effective support for graduate students.

A4.a. Increase financial support for graduate students

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

Actions taken for 2011-2012:

- Continued to implement research-outcome-based process for allocation of graduate student funding among departments
- Implemented new School policy to cover non-resident portion of graduate student tuition for all full-time GAs
- Increased graduate student line item in departmental base budgets

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Evidence of Progress for 2011-2012:

- Graduate enrollement is up 17% overall in our School as compared to Fall 2011. Particularly impressive increases of 42% in ECE and 19% in ME indicate significant progress in high impact areas

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Activities planned for 2012-2013:

- Continue to pursue reallocations to increase base budget funding to support graduate students
- Encourage faculty to include graduate student support in grant and contract proposal development

A4.b. Increase the support for grantsmanship to improve financial support for graduate students and post-doctoral fellows.

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

Actions taken for 2011-2012:

- Continued ICR return to investigators (10%), departement (10%), and centers (10%)
- Continued to provide cost share for several proposals

Evidence of Progress for 2011-2012:

- Set an all-time record in FY 2011-2012 for extramual awards

Activities planned for 2012-2013:

- Continue to provide cost share for proposals as needed

A4.c. Increase marketing efforts locally and internationally to attract highly qualified students.
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Hosted a school-based Graduate Open House
- Participated in events held by the Graduate Programs Office
- Traveled to nearby graduate recruitment fairs at Purdue University, West Lafayette and Rose-Hulman
- Participated in recruitment event at SYSU

Evidence of Progress for 2011-2012:

- Graduate student enrollment significantly increased in engineering programs over 2010-2011.

Activities planned for 2012-2013:

- Continue promoting graduate programs to Central Indiana business and industry
- Identify regional universities that have undergraduate programs in E&T and participate in their graduate fairs
- Participate in IUPUI campus-level graduate fairs, open houses, etc.

A4.e. Continue to develop new academic initiatives appropriate to Central Indiana
Campus Planning Theme: Teaching and Learning
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Expanded the M.S. in Technology program to include a Motorsports area of specialization

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Evidence of Progress for 2011-2012:

- M.S. in Technology program proposal to include a Motorsports area of specialization was approved

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Activities planned for 2012-2013:

- Continue to encourage high-ability students to proactively consider the 5-year B.S./M.S. programs in select engineering fields
- Pursue the development a 5-year B.S./M.S. program for the Technology programs

B1. Conduct world-class research as evidenced through scholarly and creative activities.

B1.a. Increase funded research with grants or contracts from government agencies, industry, foundations, and/or other organizations.

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

Actions taken for 2011-2012:

- Promoted and invested in major research foci in health care, energy, and automotive/transportation
- Encouraged multi-disciplinary teams and multi-million dollar research proposal submissions through research centers such as Transportation Active Safety Institute (TASI) and the Lugar Center for Renewable Energy
- Continued to pursue externally funded opportunities through proposal submissions to industry and federal agencies such as NIH, NSF, DoD, and DoE
- Continued strong relationships with key industry research partners, including: Delphi, Raytheon, Rolls-Royce, Crane, Roche, Cummins, and others.
- Maintained half-time Director of Industry Relations position to liaise with industry and coordinate Dean's Industrial Advisory Board and departmentally based advisory boards
- Provided School cost share when needed for federal proposals

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Evidence of Progress for 2011-2012:

- The School of Engineering and Technology received approximately $12 M in extramural awards during the 2011-

- The School of Engineering and Technology received approximately $12 M in extramural awards during the 2011-2012 fiscal year, setting an all-time record. This was accomplished in a significantly more competitive environment, given no earmark or stimulus funds
- The Department of Biomedical Engineering received $4.85 M in extramural awards during the 2011-2012 fiscal year, including $2.6 M from the Department of Defense
- The Department of Electrical and Computer Engineering's Transportation Active Safety Institute (TASI) received a contract of $4.1 M from Toyota through its Collaborative Safety Research Center program

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Activities planned for 2012-2013:

- Continue to assertively pursue extramural support of research and creative activities. Look for opportunities for forming multi-disciplinary teams and partnerships to pursue larger projects.

B1.b. Attract and retain world-class faculty and staff.
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Offered competitive start-up packages and salaries for tenure-track hires
- Implemented a School research incentive plan
- Made strategic merit raises
- Returned salary savings from external grants/contracts to investigators' discretionary accounts
- Implemented a procedure to establish shared credit among co-investigators before a proposal is submitted to a funding agency

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Evidence of Progress for 2011-2012:

- Hired 4 tenure-track faculty members in engineering. Three out of 4 tenure-track faculty members hired during the year have been members of traditionally underrepresented groups in engineering. All 4 hires belong to either female and/or minority groups as defined by the IUPUI Office of Equal Opportunity.

Activities planned for 2012-2013:

- Pursue additional faculty searches during 2012-2013

- Continue to monitor peer and aspirational peer data regarding faculty salaries and research productivity metrics

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

B2.a. Provide support for research-related professional development activities.
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued to encourage department chairs to provide funds from departmental budgets and discretionary funds to support faculty pursuing professional development

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Evidence of Progress for 2011-2012:

- Research-active faculty members have funds for dissemination and travel to research-related meetings as part of their grant or contract award

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Activities planned for 2012-2013:

- Review our approach to supporting travel to research-oriented professional development and make enhancements, as necessary

B2.b. 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 2011-2012:

- Provided support for research initiation as part of the start-up funds for newly hired faculty

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Evidence of Progress for 2011-2012:

- Most of the faculty members developed full proposals using the seed funds

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Activities planned for 2012-2013:

- Review our approach for providing seed funding for research initiation and proposal generation and make enhancements, as necessary

B2.c. Adjust teaching and administrative loads based on the expectations for teaching, research, and service to improve research productivity.

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

Actions taken for 2011-2012:

- Developed new faculty activity workload survey (FAWs) as a tool to collect quantitative data about key faculty activities in teaching, research, and service
- Provided newly hired tenure-track faculty release time from teaching to launch their research activities
- Encouraged mid-career faculty to apply for sabbatical or release time for research and approvals are considered on a case-by-case basis

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Evidence of Progress for 2011-2012:

- FAWs will be used by engineering departments and one technology department starting in Fall 2012

Activities planned for 2012-2013:

- Refine FAWs as needed and use it for the remaining departments

B3. Enhance infrastructure for scholarly activity.

B3.a. Increase and/or reallocate physical space to improve research environment

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

Actions taken for 2011-2012:

- E&T worked with campus facility services and the university's architect office to evaluate the rennovation of a portion of the third floor of the ET building (ET314 suite) to support an energy theme research area
- E&T secured off-campus space in the Stutz building to support an externally funded contract from Toyota Corporation.

Evidence of Progress for 2011-2012:

- Preliminary rennovation planning project approved

- Toyota project has received strong reviews from the sponsor and the off-campus space in the Stutz building was critical to satisfying the sponsor's requirements

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Activities planned for 2012-2013:

- Plan for possible space renovations in ET building in 2012-2013 and beyond
- Pursue off campus space solution for the motorsports engineering program, particularly space that will accomodate working on vehicles and venting/exhaust support

B3.b. Continue to enhance research-related resource sharing among departments, schools, and campuses.
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued leasing laboratory space from the School of Medicine and others.
- Continued to have the three engineering departments share research laboratory space and equipment, with some technology departments also participating in this initiative

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Evidence of Progress for 2011-2012:

- Departments have continued to consolidate and share teaching and research lab spaces, as appropriate.

Activities planned for 2012-2013:

- Continue to work with the School of Science to efficiently utilize research space in phase I of SELB.

B3.c. Increase intellectual property generation and technology transfer through IURTC and other research incubators.
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued to promote collaboration with IURTC for invention disclosure and patent applications
- Encouraged faculty members to transfer the technology from university to commercial arena

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Evidence of Progress for 2011-2012:

- School continues to rank second at IUPUI (behind the School of Medicine) in terms of patents and innovation disclosures

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Activities planned for 2012-2013:

- Continue to encourage collaboration with IURTC

B3.d. Develop and/or maintain local and national industry relationships and establish long term partnerships
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Maintained a research partnership with industry through the Dean´s Industrial Advisory Council (DIAC)
- Ensured that research activities are a discussion point on the quarterly DIAC agenda
- Involved the DIAC research subcommittee in working closely with the Associate Dean for Research and Graduate Programs in E&T

Evidence of Progress for 2011-2012:

- Secured large research contract from Toyota

Activities planned for 2012-2013:

- The planning for collaboration with DIAC will continue
- Maintain the half-time Director of Industry Relations position to increase the interaction with our industry partners
- Consider recruiting an Industry Research Development Specialist

B3.e. Provide resources to increase participation in Undergraduate Research Programs
Campus Planning Theme: Research, Scholarship and Creative Activity
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Continued to ecourage faculty and undergraduate students to pursue research opportunities and projects through the Multidisciplinary Undergraduate Research Institute (MURI)

Evidence of Progress for 2011-2012:

- Several faculty-led student MURI teams from E&T were funded
- All E&T programs have an identified and documented research experience for undergraduate students, appropriate to the discipline
- First RISE scholarship was endowed during 11-12

Activities planned for 2012-2013:

- Continue to encourage participation in MURI and similar programs.
- Continue to make undergraduate research a priority in the Capital Campaign through a focus on RISE Scholarships.

C1. Increase engagement activities, partnerships, and services.

C1.a. Continue to increase quality and effectiveness relative to advisory boards for each program.
Campus Planning Theme: Civic Engagement
Secondary Goals:
Sub Unit: None
Time Frame: Ongoing

Actions taken for 2011-2012:

- Maintained, expanded, and/or revitalized department- and program-level industry advisory boards
- Held annual Joint Board of Advisors event and Dean's Industrial Advisory Council meetings to engage industry partners in the life of E&T

Evidence of Progress for 2011-2012:

- Industry partnerships and involvement of industry advisory boards is consistently noted as a clear strength of the School in accreditation visits and reports

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Activities planned for 2012-2013:

- Better coordination of the meetings of these boards, including how to leverage joint activities for widespread impact

- More effectively engage boards in the IUPUI Impact Campaign

C1.b. Increase 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 2011-2012:

- Hosted 75 Indiana area high school counselors for PLTW day
- Student organizations prepared and delivered hands-on activities for Harshman Middle School and Tech High School students
- Students visited Harshman Middle School for lunch one day a week to mentor students
- Promoted summer camps to teachers and guidance counselors
- Hosted students and teachers from Metropolitan High School
- Visited New Palestine PLTW classes
- Held 12th Anniversary of "Tech Camp," a week-long professional development and outreach activity of CIT aimed at equipping high school teachers with IT competence and skills

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Evidence of Progress for 2011-2012:

- Continuee to receive invites from schools we have visited to return
  - Tech Camp celebrated 12 years of offering continuing education for high school technology teachers, an annual event that is gaining increasing national recognition and drawing internationally renowned authors
- E&T is working with Providence Cristo Rey high school to tutor students in Math

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Activities planned for 2012-2013:

- Continue to support, evaluate, and expand each of these outreach efforts, as appropriate
- Seek support for targeted outreach programs during the Capital Campaign
- Enhance the PLTW student poster session to include more interaction with employers

C1.c. 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 2011-2012:

- Continued collaboration with the IUPUI Solution Center to help broker specific requests

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Evidence of Progress for 2011-2012:

- Students in several programs participated in service learning and civic engagement outreach projects through Engineers Without Borders, an organization dedicated to providing technical expertise to developing countries

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Activities planned for 2012-2013:

- More interaction is planned with the IUPUI Solution Center, the Center for Service and Learning, and our industry and community partners
- Greater capacity for service learning and civic engagement opportunities will be pursued based on strong interest from students

C1.d. Expand industry partnerships relative to student employment opportunities such as scope and breadth of career fairs, selection as preferred recruitment partner.

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

Actions taken for 2011-2012:

- Strived to increase the number of companies participating in the E&T Career Connection event and identify capacity to host the companies on campus

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Evidence of Progress for 2011-2012:

- The Career Fair set a new record in 2011-2012 terms of industry participants and student attendance with several companines on a waiting list due to lack of space to host them
- The Office of Career Services and Professional Development posted over numerous engineering and technology-specific career opportunities in the past year
- The Office of Career Services and Professional Development hosted over several companies for on-campus interviews who were recruiting for internship, co-op, and career opportunities

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Activities planned for 2012-2013:

- Identify a faculty liaison in each E&T department as a first point of contact for the Office of Career Services and Professional Development staff

- Continue to actively engage Indiana economic development initiatives facilitated by BioCrossroads, Conexus, TechPoint, and Energy Systems Network

- The Office of Career Services and Professional Development within E&T will continue to identify additional means of marketing services to employers

- The Office of Career Services and Professional Development within E&T will incorporate a required site visit as an assignment of the Internship and Co-op Courses to increase employer awareness of the Office and provide a chance for staff to inquire about additional opportunities

- The Office of Career Services and Professional Development within E&Twill continue marketing and expanding the ET Career Connection to include companies from every discipline within E&T

C1.e. Increase involvement in area economic development activities and research parks.

Campus Planning Theme:
Secondary Goals:
Sub Unit:
Time Frame:

Actions taken for 2011-2012:

- Continued to participate in the Purdue University Technical Assistance Program (TAP) by leveraging the talents of engineering and technology faculty members in support of this program

- Continued to provide technical consultations to small businesses and industry organizations and involved undergraduate and graduate students in these projects

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Evidence of Progress for 2011-2012:

- Positive feedback was received from several small businesses about the quality and impact of technical consultations provided by E&T faculty and students

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Activities planned for 2012-2013:

- Explore additional opportunities for leveraging TAP affiliation

- Explore better ways of identifying new markets and providing unmet needs

C1.f. Enhance efforts for specialized markets.

Campus Planning Theme:
Secondary Goals:
Sub Unit:
Time Frame:

Actions taken for 2011-2012:

- Continued OLS program for adults with some college but no degree under the auspices of A+PLUS (Adult Programs in Leadership for Undergraduate Students)
- Continued to market the OLS via A+PLUS to International Brotherhood of Electrical Workers
- Continued to partner with IUPUI's Office of Veterans and Military Personnel to ensure proper distribution of military credit

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Evidence of Progress for 2011-2012:

- Experience with A+PLUS continues to indicate a potentially strong market for this initiative
- E&T continues to enroll the largest number of veteran and military students of any School on campus (approximately 10% of the undergraduate population in E&T are veterans)

Activities planned for 2012-2013:

- Continue to pursue external funding to enhance success in specialized markets

C1.g. Enhance service-learning opportunities for students.

Campus Planning Theme:
Secondary Goals:
Sub Unit:
Time Frame:

Actions taken for 2011-2012:

- Continued Global Design Studio, offered through architectural technology and computer graphics technology programs, to provide service learning opportunities in Thailand

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Evidence of Progress for 2011-2012:

- Although improving, there is presently insufficient capacity in E&T courses and programs for service learning experiences in support of the 'S' in RISE

Activities planned for 2012-2013:

- Continue to encourage participation in service learning and similar opportunities
- Continue to encourage faculty to develop service learning courses and experiences, appropriate to their discipline and in alignment with the RISE initiative

D.1 Best Practices

D1.a Enhance fiscal stewardship, effectiveness, and transparency.

Campus Planning Theme: Best Practices
Secondary Goals:
Sub Unit:
Time Frame:

Actions taken for 2011-2012:

- Continued to review the School's base budget, reoccurring obligations funded by cash, and departmental and School expenditures from prior fiscal year
- Adjusted the School's base budget to be more consistent with revenue streams and reoccurring obligations currently funded via cash
- Increased departmental base budgets for graduate student support thereby decreasing discretionary funds at the School level and ad hoc requests from departments and/or programs

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Evidence of Progress for 2011-2012:

- Department chairs and program directors indicate a clearer understanding of their base budgets, reoccurring costs, financial needs, and fiscal responsibilities. Also, departments have more ownership of strategic plans

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Activities planned for 2012-2013:

- Continue to review base budgets and expenditures and reallocate to support key priorities

Fiscal Health

Reallocation Plan

Other Question(s)