

DEPARTMENT OF TECHNOLOGY

FY24 Annual Budget Report

March 2024



**ILLINOIS STATE
UNIVERSITY**

Illinois' first public university

TED BRANOFF – CHAIRPERSON

JOSH BROWN – ASSISTANT CHAIRPERSON, GRADUATE COORDINATOR

Faculty

Matt Aldeman, PhD: *Sustain. & Renewable Energy
Troy Blunier, MS: Engineering Technology
Ted Branoff, PhD: Chairperson
Josh Brown, PhD: *Technology & Engineering Ed.
Adam Burke, MS: *Graph. Comm. Technology
Celeste Calkins, PhD: Graph. Comm. Technology
Geoffrey Campbell, MS: Computer Systems Tech.
Yi-hsiang “Isaac” Chang, PhD: Tech. Management
Sundeep Inti, PhD: Construction Management
Randy Jacobs, MS: Construction Management
Jin Ho Jo, PhD: Sustainable & Renewable Energy
Brock Keller, MS: Engineering Technology
Chris Merrill, PhD: Technology & Engineering Ed.
Jaby Mohammed, PhD: Engineering Technology
Stephen Mujeye, PhD: *Computer Systems Tech.

Borinara Park, PhD: Graduate Program
Klaus Schmidt, PhD: Graduate Program
Euysup Shim: PhD: Construction Management
Pranshoo Solanki, PhD. *Construction Management
Jeritt Williams, MS: Engineering Technology
Haiyan “Sally” Xie, PhD. Construction Management

** Program Coordinator*

Administrative Professionals & Civil Service

Jennifer Florence: Program Student Advisor
Kenton Walker: Office Manager
Alex Roehm: Laboratory Mechanic
Raz Steward: Academic Advisor
Cindy Wert: Administrative Aide, Lead Staff

FY24 Annual Budget Report
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Introduction

The purpose of the Annual Budget Report is to (a) summarize our departmental support of the CAST Strategic Plan and *Educate•Connect•Elevate*, (b) indicate measures of productivity, (c) describe resource reallocations or reorganizations, (d) and provide accountability for supplemental funding. Where possible, performance measures are from quantitative data compiled by other ISU units such as Research and Sponsored Programs Office and Planning, Research and Policy Analysis.

Department Vision, Mission and Goals

Mission: *Through excellence in authentic learning, scholarship, and outreach experiences, we prepare technology-oriented professionals for an ever-changing environment. We embrace the diversity of programs within the Department of Technology, which build upon the University's strong general education foundation.*

Vision: *Leaders in applied engineering, technology management and education.*

Goal 1: Provide state-of-the-art applied learning environments for undergraduate and graduate students in high-demand disciplines.

Goal 2: Support and reward faculty and staff excellence.

Goal 3: Promote a culture of respect and inclusion among faculty, staff, and students.

Goal 4: Enhance the effectiveness of the Department by strengthening engagement.

Listing of College and University Goals

CAST Strategic Plan 2019-2024

1. Integrate relevant applied learning and technologies to provide an exemplary educational experience focusing on individual goals for both undergraduate and graduate students.
2. Foster a cohesive culture of diversity, inclusion, and equity that reaches all our students, faculty, and staff.
3. Support a workplace that facilitates and rewards faculty and staff excellence.
4. Develop and maintain productive relationships with external constituencies.

Educate • Connect • Elevate 2018-2023

1. Enhance Strength and Stability
2. Foster Innovation
3. Nurture Diversity and Inclusion
4. Enrich Engagement

Departmental Goal Alignment with CAST and Educating Illinois

DEPARTMENT OF TECHNOLOGY GOALS 2019-2024	CAST 2019-2024	EDUCATE~CONNECT~ELEVATE 2018-2023
1. Provide state-of-the-art applied learning environments for undergraduate and graduate students in high-demand disciplines.	I. Integrate relevant applied learning and technologies to provide an exemplary educational experience focusing on individual goals for both undergraduate and graduate students.	I. Enhance Strength and Stability
2. Support and reward faculty and staff excellence.	III. Support a workplace that facilitates and rewards faculty and staff excellence.	II. Foster Innovation
3. Promote a culture of respect and inclusion among faculty, staff, and students.	II. Foster a cohesive culture of diversity, inclusion, and equity that reaches all our students, faculty, and staff.	III. Nurture Diversity and Inclusion
4. Enhance the effectiveness of the Department by strengthening engagement.	IV. Develop and maintain productive relationships with external constituencies.	IV. Enrich Engagement

I. Accomplishments and Productivity for FY24 --

Progress at Achieving Illinois State University, CAST, and TEC Goals

ISU Goal 1: Enhance Strength and Stability.

CAST Goal 1: Integrate relevant applied learning and technologies to provide an exemplary educational experience focusing on individual goals for both undergraduate and graduate students.

TEC Goal 1: Provide state-of-the-art applied learning environments for undergraduate and graduate students in high-demand disciplines.

TEC Goal 1: Strategy 1. Regularly assess and evaluate all departmental functions and programs to assure continuous improvement of academic rigor, scholarship and service.

Implementation actions	FY24 Outcomes / Status																								
1. Maintain program quality as indicated by successful program reviews and re-accreditation by discipline-specific accrediting agencies such as ACCE, ATMAE, and CAEP.	<ul style="list-style-type: none"> Computer Systems Technology (CST) and Engineering Technology (ET) were re-accredited by the Association of Technology Management and Applied Technology (ATMAE) in November 2017. Both programs are now moving toward ABET accreditation. Graphic Communications Technology (GCT) had a successful ACCGC re-accreditation visit in Spring 2021. Construction Management (CM) had a successful ACCE re-accreditation visit in Spring 2021. The faculty submitted a corrective action form in 2021 to address two weaknesses. Technology and Engineering Education (T&EE) reaccredited by CAEP in 2019. The program was reauthorized with Distinction by ISBE in FY22. Computer Systems Technology, Construction Management, Engineering Technology, Graphic Communications Technology, Technology & Engineering Education, and the Graduate program submitted program review documents in FY21. 																								
2. Update and implement the departmental <i>Academic Quality Assurance Program</i> for all programs and services (Deliverable: <i>Annual Assessment Report and Program Goal Reports</i>).	<ul style="list-style-type: none"> The annual assessment report is posted on the TEC website each year (About). TEC Assistant Chair oversees data collection and the development of the annual assessment report. Each program is charged to document program improvements based upon annual assessment data. Academic Quality Improvement Plans updated in 2012 as part of program review. Posted on University Assessment Services web site. The UCC approved the following curriculum revisions in 2023: <ul style="list-style-type: none"> TEC315: Cloud Computing Security; Submitted Requests in FY24: <ul style="list-style-type: none"> Computer Systems Technology program revision to add TEC315 to the required curriculum. 																								
3. Maintain active industry advisory committees in each program that meet at least annually to review, improve, and validate curriculum and other strategic programmatic directions.	<p><i>Advisory Board Meetings Dates</i></p> <table border="1"> <thead> <tr> <th style="background-color: yellow;">Program</th> <th style="background-color: yellow;"># in 2023</th> <th style="background-color: yellow;">Date(s) of Last Meetings</th> </tr> </thead> <tbody> <tr> <td>CST</td> <td>1</td> <td>April 14, 2023</td> </tr> <tr> <td>CM</td> <td>1</td> <td>November 3, 2023</td> </tr> <tr> <td>ET</td> <td>1</td> <td>February 24, 2023</td> </tr> <tr> <td>GCT</td> <td>1</td> <td>April 21, 2023</td> </tr> <tr> <td>SRE</td> <td>1</td> <td>May 5, 2023</td> </tr> <tr> <td>TEEd</td> <td>0</td> <td>April 24, 2019</td> </tr> <tr> <td>Grad</td> <td>0</td> <td>April 2, 2021</td> </tr> </tbody> </table>	Program	# in 2023	Date(s) of Last Meetings	CST	1	April 14, 2023	CM	1	November 3, 2023	ET	1	February 24, 2023	GCT	1	April 21, 2023	SRE	1	May 5, 2023	TEEd	0	April 24, 2019	Grad	0	April 2, 2021
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<p>4. Conduct regular classroom peer observations with probationary faculty and non-tenured track faculty (NTT) to assess teaching performance and to promote quality of instruction.</p>	<ul style="list-style-type: none"> Peer observations and follow-ups of 3 tenure-track faculty in October/November 2023. Teaching expectations and feedback from IDEA evaluations included in Assignment of Duties letters to part-time instructors. One-on-one meetings held with all full-time faculty each spring to review IDEA ratings and plans for instructional improvements, as well as plans for scholarship, service, and professional development. Conducted formal classroom observations and evaluations for four NTT faculty in the spring of 2023.
<p>5. Encourage students to pursue professional certification exams (such as CISCO, Microsoft, AIC Level 1, SME, Teacher Certification, etc.).</p>	<ul style="list-style-type: none"> Computer System Technology faculty encourage students to take professional certification exams (e.g., CISCO, Microsoft, etc.). All Technology & Engineering Education students are required to take two state teacher examinations and develop an EdTPA portfolio as a national assessment for licensure. As part of TEC 250, TEC 317, TEC 353, TEC 354, Graphic Communications Technology students earn certifications in Print Planning & Estimating, Color Management Fundamentals, Autodesk Maya, and Publication Design for Print & Digital Media.
<p>6. Review and update as necessary DFSC Policies to provide appropriate incentives for high quality performance in teaching, research, and service.</p>	<ul style="list-style-type: none"> DFSC guidelines last revised in 2023. Main revisions were related to recusing members of the DFSC. The DFSC and faculty are currently revising the policies. Potential changes involve additional performance indicators for annual review.
<p>7. Utilize enrollment management to maintain appropriate instructional capacity and student quality.</p>	<ul style="list-style-type: none"> Target admission numbers provided to EMAS for each program. All courses are major blocked until TEC students have registered. Admission GPA is similar to other units in CAST. The Department's enrollment increased from Fall 2021 (609) to Fall 2023 (623).

TEC Goal 1: Strategy 2. Recruit, retain, and recognize diverse high-quality students.

Implementation Actions	FY24 Outcomes / Status
<p>8. Annually update the departmental <i>Diversity Plan</i> to ascertain actions needed for enhancement of participation by underrepresented groups.</p>	<ul style="list-style-type: none"> Technology and Engineering Education grants target diverse schools across Illinois. T&EE students are required to complete 50 clinical hours in a diverse school setting. Departmental Diversity Plan updated annually.
<p>9. Provide funding to faculty and staff for high-impact recruitment activities.</p>	<ul style="list-style-type: none"> Recruitment events included participation in (a) ISU Open Houses, Scholars & Honors days, departmental showcases, and weekly tours for interested students, (b) selected high school career days, (c) visits from high schools, (d) articulation meetings and subsequent agreements with community colleges, and (e) special recruitment and promotional events such as IDEA competition, TSA competitions, and Tech Day that collectively bring hundreds of students and numerous high school teachers to the Department and ISU over the course of the year. Periodically host University College advisors for educational tours. We hosted approximately 20 advisors on February 22, 2019 to update them on the programs and give them a tour. Chair, Advisor, and Program Coordinators (as needed) meet regularly to review recruitment activities outlined in annual program Plans of Work.

	<ul style="list-style-type: none"> • A welcome letter was sent to all admitted students during the Fall 2023 or Spring 2024 semester. In addition, admitted students received an email regarding scholarships from the Department Chair. • During FY2018, a TEC Student Ambassador program was initiated. Program areas nominated individuals who could represent their programs and the department at events such as open houses, individual tours, and alumni events. The program continued in FY24. • The Department worked with University Marketing and Admissions in FY22 and FY23 on targeted digital advertising for Graphic Communications Technology, Sustainable & Renewable Energy, and Technology & Engineering Education.
<p>10. Maintain up-to-date professional marketing materials, including a department Web site, program brochures and information sheets, and portable travel displays.</p>	<ul style="list-style-type: none"> • A major revision of the TEC website was done in 2022. • Website updated each summer and periodically as needed throughout the year. • News blog items are created regularly to update our constituents. • Facebook, Instagram, and LinkedIn pages for the Department and various undergraduate programs are maintained with photos and news items. • The Construction Management program maintains a Facebook page. • The Graphic Communications Technology program maintains Facebook, Instagram, Twitter, and LinkedIn groups with regular posts and updates. • In 2019 we worked with University Marketing & Communications to update our promotional materials for the department.
<p>11. Maintain updated articulation guidelines with Illinois community colleges.</p>	<ul style="list-style-type: none"> • Department maintains over 100 program level articulations with 22 Illinois community colleges. Guidelines updated by Coordinators as needed to accommodate curriculum changes.
<p>12. Respond to university initiatives to inform and direct students to Department of Technology programs.</p>	<ul style="list-style-type: none"> • The Department provides University College with up-to-date materials so they can properly advise students across campus about our programs. • Department advisors and Department Chair participated in Preview during the summer of 2023. • Jeff Mavros (Director of Admissions) attended the TEC Department Retreat on September 23, 2022 to discuss ways to recruit students to lower enrolled programs in the department.
<p>13. Annually award scholarships and other recognitions to high-performing students.</p>	<ul style="list-style-type: none"> • TEC Scholarship and Honors recognition was held in September 9, 2023. • 32 new or continuing students shared in over \$55,000 of departmental scholarship awards. In addition, students reported receiving over \$20,000 in external scholarships.
<p>14. Promote student participation in the Honors Program and other scholarly recognitions.</p>	<ul style="list-style-type: none"> • Thirteen students within the Department are enrolled in the Honors program (academic good standing, a full-time student, and have completed a minimum of 60 hours with a cumulative GPA of 3.3 on a 4.0 scale).

	<p><i>5-year comparison of Honors Students.</i></p> <table border="1"> <thead> <tr> <th>Year</th> <th>Fall Census</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>13</td> </tr> <tr> <td>2022</td> <td>13</td> </tr> <tr> <td>2021</td> <td>12</td> </tr> <tr> <td>2020</td> <td>18</td> </tr> <tr> <td>2019</td> <td>14</td> </tr> </tbody> </table>	Year	Fall Census	2023	13	2022	13	2021	12	2020	18	2019	14
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15. Pursue alternate delivery of courses to meet global changes and market conditions.	<ul style="list-style-type: none"> Seven undergraduate and three graduate courses were offered online during summer 2023. The Fall 2023 semester consisted of a mixture of face-to-face (70), hybrid (10), and online (1) sections. The same was true for the Spring 2023 semester with a mixture of face-to-face (71), hybrid (8), and online (1) sections. 												

TEC Goal 1: Strategy 3. Recruit, retain, and recognize diverse high-quality faculty and staff.

Implementation Actions	FY24 Outcomes / Status
Fill tenure track lines as permission is granted to search.	<ul style="list-style-type: none"> The Department searched for one tenure-track position in FY23 in Engineering Technology. The search was successful, and Jeritt Williams started at ISU in August 2023.
16. Provide support for faculty professional development to continually improve knowledge and skills in teaching and research	<ul style="list-style-type: none"> All full-time faculty are eligible for a specified level of travel funds for conferences, presentations, and professional development. Mentor programs are established for all TT faculty. Tenure-track faculty in their first two years are provided additional professional development funds to nurture a focused research agenda. Faculty are strongly encouraged to participate in/apply for CIPD and other internal professional development (PD) funding opportunities.
17. Structure teaching loads to facilitate research expectations.	<ul style="list-style-type: none"> When possible, without impacting instruction, accommodations in teaching assignments, such as scheduling classes on only two or three days per week, are made to provide blocks of time conducive to scholarly productivity. As funds permit, new tenure-track faculty receive a one course release in the fall semester during their first year.
18. Provide opportunities for summer employment and industry externships.	<ul style="list-style-type: none"> Eight faculty taught courses during the 2023 summer. Six faculty were paid to do lab maintenance and inventory.
19. Annually recognize outstanding departmental faculty for teaching, research, and service and nominate faculty for other award programs as appropriate.	<ul style="list-style-type: none"> 2023 Departmental Awards to Inti, Xie, and Blunier respectively for Teaching, Research, and Service. TEC Alumni awards to Giovanni Bernetti '94 (Distinguished Alum), and Sara Keene '19 (Outstanding Young Alum). CAST Alumni awards Jeritt Williams '07 & '12 (CAST Academy of Achievement), David Tsurusaki '82 (CAST Hall of Fame). 2023-2024 CAST Outstanding Research Award – Pre-Tenure, Sundeep Inti. Troy Blunier received the ITEEA Outstanding State Champion Award.
20. Encourage faculty involvement in CIPD services and workshops.	<ul style="list-style-type: none"> Faculty regularly participate in CIPD topical workshops to improve classroom instruction.

	<ul style="list-style-type: none"> The table below presents the number of TEC faculty who participated in CIPD events and the total participation hours for all faculty for the each of last ten years. <table border="1" data-bbox="686 317 1360 695"> <thead> <tr> <th>Year</th> <th># of individuals</th> <th>Total Hours</th> </tr> </thead> <tbody> <tr><td>2023</td><td>8</td><td>114</td></tr> <tr><td>2022</td><td>9</td><td>71</td></tr> <tr><td>2021</td><td>11</td><td>119</td></tr> <tr><td>2020</td><td>28</td><td>312</td></tr> <tr><td>2019</td><td>20</td><td>402</td></tr> <tr><td>2018</td><td>14</td><td>182</td></tr> <tr><td>2017</td><td>17</td><td>231</td></tr> <tr><td>2016</td><td>10</td><td>201</td></tr> <tr><td>2015</td><td>11</td><td>473</td></tr> <tr><td>2014</td><td>8</td><td>257</td></tr> <tr><td>2013</td><td>17</td><td>219</td></tr> </tbody> </table>	Year	# of individuals	Total Hours	2023	8	114	2022	9	71	2021	11	119	2020	28	312	2019	20	402	2018	14	182	2017	17	231	2016	10	201	2015	11	473	2014	8	257	2013	17	219
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<p>21. Pursue a diverse high-quality faculty and staff through appropriate recruitment activities.</p>	<ul style="list-style-type: none"> When conducting searches for faculty and staff in 2023, ads were placed in a wide spectrum of venues to attract the best candidates. This included professional society websites, HBCU publications, and standard publications for faculty position announcements. 																																				

TEC Goal 1: Strategy 4. Promote collaborations among faculty, student, and industry to develop leadership skills, professionalism, and collegiality.

Implementation Actions	FY24 Outcomes / Status
<p>22. Solicit industry funding to support and encourage student participation in professional organizations and associated events such as field trips, guest speakers, conferences, competitions, and trade shows.</p>	<p>Numerous opportunities available for students to engage in meetings, field trips, conferences and competitions sponsored by professional organizations. Following is a representative sample of these activities.</p> <ul style="list-style-type: none"> Over 30 CM students attended ASC, NECA, MCAA, NAHB national/state/local meetings/events/competitions, mostly funded by industry and professional organizations. The CM Partnership program was established in 2013 to fund student professional development. See https://tec.illinoisstate.edu/giving/construct ion-management-industry-partnership/ Six GCT students participated in the Phoenix Challenge Competition in 2023. The group took second place in the national competition. Previous student travel for this competition has been partially funded by the <i>William P. LaBounty Endowment for Graphic Communications</i>. Adam Burke took a group of students to Label Expo in Rosemount, Illinois in September of 2023. T&EE students participated in conferences and competitions associated with state (TEAI and TSA), regional (Midwest TEECA), and national professional organizations (ITEEA).

<p>23. Promote experiential learning opportunities and mentoring for students such as industry-based graduate assistantships, professional practice, honors projects, and independent studies.</p>	<ul style="list-style-type: none"> • CM and ET require work experience hours prior to the senior capstone courses. • 9 BS and 21 MS students were placed in internships (TEC 398 and TEC 498) in 2023. Most undergrads opt for “informal” summer internship positions without registering for credit.
<p>24. Organize and conduct social events that promote student-faculty interaction (i.e., tailgates, homecoming, etc.).</p>	<ul style="list-style-type: none"> • Scholarship and Honors recognition held September 9, 2023. • CM and Interior Design students built a float for the 2023 homecoming parade.
<p>25. Provide opportunities for students, faculty, and staff to improve knowledge and skills through engagement with professional organizations.</p>	<ul style="list-style-type: none"> • Sundee Inti attended the Transportation Research Board Annual Meeting in Washington, DC, January 7-11, 2023. • Stephen Mujeye, ICSIM Conference, Palmerston North, New Zealand, January 29-February 3, 2023. • Dave Mallery and 6 CM students attended the NAHB conference in Las Vegas, Nevada, January 30-February 3, 2023. • Euysup Shim and 6 CM students attended and competed in the ASC Regions 6 & 7 conference in Reno, Nevada, February 8-12, 2023. • Euysup Shim, ACCE Mid-Year Conference, Dallas, Texas, February 14-17, 2023. • Randy Jacobs and 4 CM students attended the MCAA conference in Phoenix, Arizona, March 26-30, 2023. • Pranshoo Solanki, ACI Conference, San Francisco, California, April 1-6, 2023. • Pranshoo, Solanki, National Concrete Consortium, Savannah, Georgia, April 11-12, 2023. • Troy Blunier, Josh Brown, and students attended ITEEA in Minneapolis, Minnesota, April 12-15, 2023. • Adam Burke, Celeste Calkins, and two students attended FTA Infoflex, Columbus, Ohio, April 14-19, 2023. • Jaby Mohammed attended the ABET Accreditation Workshop in Nashville, Tennessee, April 18-21, 2023. • Matt Aldeman and Jin Jo, IEEE Green Technologies Conference, Aurora, Colorado, April 19-21, 2023. • Sally Xie, ICEINA, Shanghai, China, June 6-12, 2023. • Matt Aldeman, Ted Branoff, Jeritt Williams, Pranshoo Solanki, ASEE, Baltimore, Maryland, June 25-28, 2023. • Stephen Mujeye, KM Conference, Geneva, Switzerland, June 26-July 3, 2023. • Sally Xie, ACEER, Macau, China, July 4-7, 2023. • Randy Jacobs and 4 CM students attended the MCAA conference in Milwaukee, Wisconsin, September 28-30, 2023. • Euysup Shim and 12 CM students attended the ASC Region III competition October 18-21, 2023. Six students competed in the Preconstruction Competition, and the other six students competed in the Commercial Construction Competition. The commercial team placed second. • ITEC Conference, Normal, Illinois, October 20-21, 2023. • Celeste Calkins, Print United, Atlanta, Georgia, October 19, 2023. • Josh Brown, Mississippi Valley Conference, Nashville, Tennessee, November 15-17, 2023. • Celeste Calkins, ASHE Conference, Minneapolis, Minnesota, November 15-18, 2023.

	<ul style="list-style-type: none"> Graduate student Rahul Mudliar worked with Dr. Park on a research paper, which he presented at the Decision Science Institute Annual Conference in Atlanta, Georgia, November 17-21, 2023. Chris Merrill, ACTE, Phoenix, Arizona, November 28-December 2, 2023.
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ISU Goal 2: Foster Innovation.

CAST Goal 3: Support a workplace that facilitates and rewards faculty and staff excellence.

TEC Goal 2: Support and reward faculty and staff excellence.

TEC Goal 2: Strategy 1. Enhance a culture of research and scholarship across the department that also celebrates faculty involvement in internally and externally funded activities.

Implementation Actions	FY24 Outcomes / Status																																																																						
26. Support the department’s scholarly productivity with an emphasis on refereed publications and other appropriate scholarship.	<ul style="list-style-type: none"> See: Goal 1: Strategy 3. Recruit, retain, and recognize diverse high-quality faculty and staff for details regarding initiatives and resources provided to support faculty travel for scholarly presentations, professional develop, teaching load assignments, mentoring, and awards. The <i>Wiens/Custer Professional Development Endowment</i> provides financial support for faculty participation in development activities that promote skills related to scholarship and grantsmanship. In addition, funding is available for incentivize consulting support tailored to specific external grant needs in the areas of budget preparation, critical review, and even proof reading. Preference will be given to faculty who are in the early stages of their career. 																																																																						
27. Promote participation in grants and external funding by tenured faculty.	<ul style="list-style-type: none"> Success at grantsmanship is recognized at public venues and faculty are nominated for research related awards. Annual merit review values and rewards grantsmanship. <p><i>Summary of Annual Grant/Contract Productivity</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: yellow;">Year</th> <th style="background-color: yellow;"># of Proposal</th> <th style="background-color: yellow;">\$ Submitted</th> <th style="background-color: yellow;"># of Awards</th> <th style="background-color: yellow;">\$ Awarded</th> </tr> </thead> <tbody> <tr><td>FY23</td><td>7.00</td><td>839,890</td><td>5.00</td><td>167,846</td></tr> <tr><td>FY22</td><td>8.00</td><td>2,581,184</td><td>2.00</td><td>1,400,418</td></tr> <tr><td>FY21</td><td>5.00</td><td>9,886,586</td><td>3.00</td><td>732,024</td></tr> <tr><td>FY20</td><td>3.00</td><td>834,429</td><td>1.00</td><td>635,000</td></tr> <tr><td>FY19</td><td>6.00</td><td>1,045,655</td><td>5.00</td><td>737,124</td></tr> <tr><td>FY18</td><td>9.48</td><td>2,557,136</td><td>5.00</td><td>720,178</td></tr> <tr><td>FY17</td><td>4.00</td><td>564,876</td><td>0.67</td><td>184,250</td></tr> <tr><td>FY16</td><td>2.67</td><td>380,250</td><td>2.07</td><td>252,701</td></tr> <tr><td>FY15</td><td>2.45</td><td>653,861</td><td>1.00</td><td>212,939</td></tr> <tr><td>FY14</td><td>1.00</td><td>223,715</td><td>2.33</td><td>1,018,336</td></tr> <tr><td>FY13</td><td>3.00</td><td>1,846,121</td><td>3.00</td><td>1,221,075</td></tr> <tr><td>FY12</td><td>6.53</td><td>2,318,546</td><td>4.50</td><td>1,420,262</td></tr> <tr><td>FY11</td><td>5.43</td><td>1,066,706</td><td>4.43</td><td>1,170,619</td></tr> </tbody> </table> <p>Data from Research and Sponsored Programs</p>	Year	# of Proposal	\$ Submitted	# of Awards	\$ Awarded	FY23	7.00	839,890	5.00	167,846	FY22	8.00	2,581,184	2.00	1,400,418	FY21	5.00	9,886,586	3.00	732,024	FY20	3.00	834,429	1.00	635,000	FY19	6.00	1,045,655	5.00	737,124	FY18	9.48	2,557,136	5.00	720,178	FY17	4.00	564,876	0.67	184,250	FY16	2.67	380,250	2.07	252,701	FY15	2.45	653,861	1.00	212,939	FY14	1.00	223,715	2.33	1,018,336	FY13	3.00	1,846,121	3.00	1,221,075	FY12	6.53	2,318,546	4.50	1,420,262	FY11	5.43	1,066,706	4.43	1,170,619
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FY19	6.00	1,045,655	5.00	737,124																																																																			
FY18	9.48	2,557,136	5.00	720,178																																																																			
FY17	4.00	564,876	0.67	184,250																																																																			
FY16	2.67	380,250	2.07	252,701																																																																			
FY15	2.45	653,861	1.00	212,939																																																																			
FY14	1.00	223,715	2.33	1,018,336																																																																			
FY13	3.00	1,846,121	3.00	1,221,075																																																																			
FY12	6.53	2,318,546	4.50	1,420,262																																																																			
FY11	5.43	1,066,706	4.43	1,170,619																																																																			
28. Provide departmental resources in support of research and grant submission.	<ul style="list-style-type: none"> The <i>Wiens/Custer Professional Development Endowment</i> provides financial support for faculty participation in development activities that promote skills related to scholarship and grantsmanship. Each year faculty can submit proposals to received funding for activities related furthering their professional development. 																																																																						

<p>29. Facilitate effective mentorship of junior faculty to develop a focused line of scholarship that integrates teaching, research, and service/outreach.</p>	<ul style="list-style-type: none"> • Mentors are assigned to all new tenure-track faculty. Chair also visits with tenure-track faculty regularly to review, encourage, and support scholarly productivity. • Tenure-track faculty are strongly encouraged to participate in the URG program and other CAST/ISU workshops to enhance grantsmanship skills. • Five TT faculty completed or had continuing URGs in FY24, and one TT faculty received a new URG. Four TT faculty have continuing competitive external grant/project awards, and one TT faculty received a new externally funded project.
<p>30. Promote faculty involvement in CAST, CTLT, and University funding opportunities and sponsored research skill development activities.</p>	<ul style="list-style-type: none"> • Tenure-track faculty regularly participate in the CAST/RSP research and grant writing workshops. Tenured faculty participate as appropriated.

TEC Goal 2: Strategy 2. Disseminate the results of research through journal publications, conference proceedings, and research presentations.

Implementation Actions	FY24 Outcomes / Status																		
<p>31. Encourage tenure-track faculty to participate in the CAST Publication Incentive Program.</p>	<ul style="list-style-type: none"> • Faculty are encouraged to access CAST Publication Incentive Program (PIP) funds for additional travel support. In 2023, 5 faculty submitted 11 applications and earned PIP awards for 11 peer reviewed journal or proceedings publications. <p><i>5-Year Comparison Of Faculty Scholarly Productivity As Measured by PIP Awards</i></p> <table border="1" data-bbox="695 1014 1377 1213"> <thead> <tr> <th>Yr</th> <th># of Faculty</th> <th># CAST Awards</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>4</td> <td>6</td> </tr> <tr> <td>2022</td> <td>3</td> <td>5</td> </tr> <tr> <td>2021</td> <td>5</td> <td>11</td> </tr> <tr> <td>2020</td> <td>2</td> <td>3</td> </tr> <tr> <td>2019</td> <td>6</td> <td>13</td> </tr> </tbody> </table>	Yr	# of Faculty	# CAST Awards	2023	4	6	2022	3	5	2021	5	11	2020	2	3	2019	6	13
Yr	# of Faculty	# CAST Awards																	
2023	4	6																	
2022	3	5																	
2021	5	11																	
2020	2	3																	
2019	6	13																	
<p>32. Provide travel support for faculty making refereed presentations at professional conferences.</p>	<ul style="list-style-type: none"> • TEC provides \$1000 in travel support annual to faculty making refereed presentations at professional conferences. Additional funds are available to tenure-track faculty in their first two years. • TEC provides funding for graduate students who are accepted to give peer reviewed research presentations at professional conferences. 																		
<p>33. Provide departmental resources to support faculty research facilities and laboratories.</p>	<ul style="list-style-type: none"> • In 2023, department IDC funds were used to support faculty research in several areas (e.g., automation and travel, etc.). 																		

TEC Goal 2: Strategy 3. Support and reward innovation and excellence in teaching.

Implementation Actions	FY24 Outcomes / Status
<p>34. Encourage faculty to participate in professional development workshops sponsored by the CTLT or other organizations.</p>	<ul style="list-style-type: none"> • Eight faculty and staff participated in 114 hours of CIPD professional development.
<p>35. Recognize outstanding faculty by nominating them for College and University teaching awards.</p>	<ul style="list-style-type: none"> • One tenure track faculty was nominated for the CAST Outstanding Researcher Award – Pre-Tenure Category and the ISU Research Initiative Award. Dr. Sundeep Inti received the CAST Outstanding Researcher Award – Pre-Tenure Category.

36. Provide funds to support innovative learning environments.	<ul style="list-style-type: none"> • Program Coordinators submit annual Resource Allocation Plans (RAP) for capital equipment and facilities improvements. Requests are prioritized and supported as funding allows. Programs are encouraged to include longer-term resource planning in their annual Plan of Work.
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TEC Goal 2: Strategy 4. Provide professional development support and opportunities for faculty and staff.

Implementation Actions	FY24 Outcomes / Status
37. Encourage faculty/staff to participate in professional development activities that promote excellence.	<ul style="list-style-type: none"> • Staff – one TEC staff logged 4.5 hours of professional development activities related to Canvas.
38. Provide professional development funding for faculty, especially when the activities lead to external funding proposals.	<ul style="list-style-type: none"> • Many faculty received travel funding from indirects to attend professional development activities at conferences.

TEC Goal 2: Strategy 5. Encourage and reward meaningful service by faculty and staff.

Implementation Actions	FY24 Outcomes / Status
39. Encourage faculty and staff to participate in service activities on and off campus.	<ul style="list-style-type: none"> • See item 59 for a list of on-campus faculty service. • Matt Adleman, Troy Blunier, Josh Brown, Adam Burke, Celeste Calkins, Geoff Campbell, Isaac Chang, Randy Jacobs, Jin Jo, Brock Keller, Chris Merrill, Jaby Mohammed, and Stephen Mujeye serve as faculty advisors to ISU campus RSOs. • Ted Branoff & Chris Merrill participated in a career fair at Neuqua Valley High School. • Randy Jacobs served as a Civic Engagement Ambassador. • Troy Blunier and Brock Keller worked with Engineering Technology and Technology & Engineering Education students on service projects. • Technology & Engineering Education faculty and students worked with approximately 250 secondary students in October 2023 for ISU Tech Day. • Technology & Engineering Education faculty and students hosted the 2023 TSA State Conference that included approximately 120 secondary students.
40. Recognize faculty and staff service in website media posts, monthly donor letters, and annual reports.	<ul style="list-style-type: none"> • Troy Blunier was recognized with the 2023 Department of Technology Service Award.
41. Recognize outstanding faculty and staff by nominating them for College and University service awards.	<ul style="list-style-type: none"> • Cindy Wert received the CAST Outstanding Staff Award.

ISU Goal 3: Nurture Diversity and Inclusion.

CAST Goal 2: Foster a cohesive culture of diversity, inclusion, and equity that reaches all our students, faculty, and staff.

TEC Goal 3: Promote a culture of respect and inclusion among faculty, staff, and students.

TEC Goal 3: Strategy 1. Promote inclusion, respect, and equity within our classrooms by creating awareness and programming for faculty and staff.

Implementation Actions	FY24 Outcomes / Status
42. Encourage faculty and staff to attend professional development activities related to inclusion.	<ul style="list-style-type: none"> • TEC faculty are encouraged to attend CAST and ISU sponsored professional development activities. • Several TEC faculty attended sessions on January 27, 2023 (First Gen Students), February 24, 2023 (Choir, Ally, Oblivious, Registers, and the Defiant), October 6, 2023 (Identifying and Disrupting Deficit Thinking and Language).
43. Devote at least one meeting per year to inclusion, respect, and equity professional development.	<ul style="list-style-type: none"> • All faculty and staff were encouraged to attend professional development sessions sponsored by the University and CAST. • A portion of the September 15, 2023 faculty retreat was dedicated to student retention. Tamekia Bailey (Director of CAST Connections) met with the group to answer questions about student retention and student success strategies.
44. Collaborate with campus organizations related to diversity initiatives and utilize existing campus resources.	<ul style="list-style-type: none"> • Department of Technology faculty and staff were encouraged to participate in workshops sponsored by CAST and ISU. • Dr. Jaby Mohammed is a member of the CAST DEBI committee and keeps TEC faculty and staff informed of college and university initiatives.
45. Provide an anonymous channel for regular feedback about departmental experiences with faculty, staff, and other students to address issues and commend accolades.	<ul style="list-style-type: none"> • Graduating seniors all have an opportunity to complete our Senior Survey to give feedback on their experiences within the Department of Technology. • Graduate students are typically interviewed by phone or in person regarding their experiences.

Goal 3: Strategy 2. Continue to diversify and promote equity among faculty, staff, and students.

Implementation Actions	FY24 Outcomes / Status
46. Be strategic when posting faculty and staff position announcements to maximize the diversity of the search pools.	<ul style="list-style-type: none"> • When conducting searches for faculty in 2023-2024, ads were placed in a wide spectrum of venues to attract the best candidates. This included professional society websites, HBCU publications, and standard publications for faculty and staff position announcements.
47. Create social media stories that highlight diversity in the department.	<ul style="list-style-type: none"> • The Department of Technology Facebook page highlights a wide range of stories illustrating the diversity of programs and students within the department.
48. Include questions about student experiences with diversity and equity on the senior survey to inform departmental faculty and staff.	<ul style="list-style-type: none"> • These questions were added to our senior survey. No students added any comments to the questions.
49. Ensure diverse and equitable representation on advisory boards.	<ul style="list-style-type: none"> • All program area coordinators work to ensure advisory board members represent the diversity of our constituents.

Goal 3: Strategy 3. Increase and reward collaboration among students and faculty within the Department, College, and University.

Implementation Actions	FY24 Outcomes / Status
50. Encourage faculty to design projects that promote students working across curricula.	<ul style="list-style-type: none"> • TEC 320 project groups involve students across multiple program areas.

<p>51. Promote teaching and research projects across program areas and departments/schools.</p>	<ul style="list-style-type: none"> • Dr. Pranshoo Solanki has worked with faculty and students in TEC and Health Sciences on a research project using recycled glass as a replacement of cement in controlled low-strength material. • Several faculty in the department (Aldeman, Chang, Inti, Jo, Mujeye, Solanki) have submitted proposals or are working on proposals for external funding that have included faculty from other units on campus (e.g., Agriculture, Health Sciences, School of Information Technology, Campus AT, etc.).
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Goal 3: Strategy 4. Continue to expand the international opportunities for students and faculty.

Implementation Actions	FY24 Outcomes / Status
<p>52. Promote opportunities for faculty and students to study abroad, present and/or collaborate on international research projects, host visiting scholars, and globalize the curriculum.</p>	<ul style="list-style-type: none"> • Sustainable & Renewable Energy students are encouraged to complete a study abroad experience at AAMS University in Aarhus, Denmark. • Klaus Schmidt and Sally Xie have collaborated with international colleagues on research projects.
<p>53. Create social media stories that highlight international activities.</p>	<ul style="list-style-type: none"> • International stories are posted on the Department of Technology’s news site and Facebook page.
<p>54. Highlight international initiatives at departmental meetings.</p>	<ul style="list-style-type: none"> • International initiatives are highlighted when appropriate at departmental meetings.
<p>55. Gather data from graduating students to continuously improve the graduate program.</p>	<ul style="list-style-type: none"> • International students are typically interviewed upon graduation to gather feedback regarding their experiences.

ISU Goal 4: Enrich Engagement.

CAST Goal 4: Develop and maintain productive relationships with external constituencies.

TEC Goal 4: Enhance the effectiveness of the Department by strengthening engagement.

TEC Goal 4: Strategy 1. Encourage involvement in outreach, consulting activities, and leadership in appropriate state, national and international professional organizations.

Implementation Actions	FY24 Outcomes / Status
<p>56. Encourage faculty participation in outreach and technology transfer activities.</p>	<p>Outreach/consulting activities in 2023:</p> <ul style="list-style-type: none"> • Consultation on VR and 3D printing to Carle BroMenn – Chang. • Teacher professional development – Merrill & J. Brown. • Robotics, manufacturing, and CAD consulting – Devine & Williams. • IDEA workshops for drafting educators – Blunier & Williams. • MDI workshops – Park & Schmidt. • Quality Management and Analytics workshops – Park.
<p>57. Encourage faculty participation and leadership in national and international professional organizations associated with our departmental disciplines.</p>	<p>Faculty were actively involved in providing service to State or National Professional Organizations. A sampling of professional societies include: ACCE, ACCGC, ASC, ASEE, ATMAE, GLGA, IACTE, IEEE, IGAEA, ISGG, ITEEA, and TSA.</p> <ul style="list-style-type: none"> • Matt Aldeman – Chair, Energy Conversion, Conservation, and Nuclear Engineering Division of ASEE. • Troy Blunier – Board of Directors, Council of Supervision and Leadership, ITEEA.

	<ul style="list-style-type: none"> • Ted Branoff – Treasurer (North & South America), International Society for Geometry & Graphics. • Josh Brown – Treasurer, Council for Technology & Engineering Teacher Education, ITEEA. • Isaac Chang – Chair of CEG Exam Commission, ATMAE. • Jin Jo – Associate Editor, <i>International Journal of Sustainable Building Technology and Urban Development</i>. • Chris Merrill – Chair, Illinois TSA. Executive Director, IACTE. • Jaby Mohammed – Campus Representative (IN-IL Region), ASEE. • Klaus Schmidt – Editorial Board, <i>MDPI-Laws</i>. • Pranshoo Solanki – Committee Member, American Concrete Institute Committee 555 and the national Transportation Research Board. 																																												
58. Encourage faculty participation as members of accreditation boards and accreditation and program review teams.	<ul style="list-style-type: none"> • Dr. Dan Wilson (retired in summer 2021) is currently the Director of ACCGC. 																																												
59. Encourage faculty participation in campus-wide committees and activities.	<p>All faculty serve on one or more TEC/CAST/ISU committee(s). Faculty service is included in annual activity reports. Following is a listing of TEC faculty serving on College and University level committees.</p> <table> <tr><td>Acad. Freedom, Ethics & Grievance</td><td>Bo Park</td></tr> <tr><td>CAST Council</td><td>Isaac Chang</td></tr> <tr><td>CAST Curriculum Committee</td><td>Euysup Shim</td></tr> <tr><td>CAST Dean Search Comm</td><td>Josh Brown/Jin Jo</td></tr> <tr><td>CAST DEBI Committee</td><td>Jaby Mohammed</td></tr> <tr><td>CAST Research Council</td><td>Sundee Inti</td></tr> <tr><td>CeMaST, Associate Director</td><td>Chris Merrill</td></tr> <tr><td>CFSC</td><td>Pranshoo Solanki</td></tr> <tr><td>Civic Engagement Council</td><td>Randy Jacobs</td></tr> <tr><td>Council on General Education</td><td>Sally Xie</td></tr> <tr><td>Engineering Faculty Search Comm</td><td>Matt Aldeman</td></tr> <tr><td>Innovation Consulting Community</td><td>Pranshoo Solanki</td></tr> <tr><td>ISU Annuity Association Board</td><td>Bo Park</td></tr> <tr><td>ISU Damage Assessment Team</td><td>Pranshoo Solanki</td></tr> <tr><td>ISU Graduate Council</td><td>Sundee Inti</td></tr> <tr><td>ISU IT Infrastructure Committee</td><td>Stephen Mujeye</td></tr> <tr><td>ISU STEM DEI Taskforce</td><td>Chris Merrill / Sally Xie</td></tr> <tr><td>ISU Sustainability Comm</td><td>Jin Jo/Pranshoo Solanki</td></tr> <tr><td>ISU University Hearings Panel</td><td>Bo Park</td></tr> <tr><td>Presidential Sustainability Comm</td><td>Jin Jo</td></tr> <tr><td>Research Computing Adv. Council</td><td>Isaac Chang</td></tr> <tr><td>UAS – Advisory Council</td><td>Josh Brown</td></tr> </table>	Acad. Freedom, Ethics & Grievance	Bo Park	CAST Council	Isaac Chang	CAST Curriculum Committee	Euysup Shim	CAST Dean Search Comm	Josh Brown/Jin Jo	CAST DEBI Committee	Jaby Mohammed	CAST Research Council	Sundee Inti	CeMaST, Associate Director	Chris Merrill	CFSC	Pranshoo Solanki	Civic Engagement Council	Randy Jacobs	Council on General Education	Sally Xie	Engineering Faculty Search Comm	Matt Aldeman	Innovation Consulting Community	Pranshoo Solanki	ISU Annuity Association Board	Bo Park	ISU Damage Assessment Team	Pranshoo Solanki	ISU Graduate Council	Sundee Inti	ISU IT Infrastructure Committee	Stephen Mujeye	ISU STEM DEI Taskforce	Chris Merrill / Sally Xie	ISU Sustainability Comm	Jin Jo/Pranshoo Solanki	ISU University Hearings Panel	Bo Park	Presidential Sustainability Comm	Jin Jo	Research Computing Adv. Council	Isaac Chang	UAS – Advisory Council	Josh Brown
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TEC Goal 4: Strategy 2. Encourage service-learning opportunities for students

Implementation Actions	FY24 Outcomes / Status
60. Encourage faculty to develop service-learning experiences in appropriate courses.	<ul style="list-style-type: none"> • Department of Technology faculty are encouraged to be more strategic related to community engagement and service-learning activities. These activities can now be entered within Watermark for their annual activity reports.

61. Encourage student civic engagement in community service activities, student organizations, and service-learning projects.	<ul style="list-style-type: none"> • Merrill worked with Playmates Preschool on several STEM-based activities (Rocketry, Transportation, Engineering-based challenges). • Brock Keller and the Engineering Technology Club completed some service hours at Recycling Furniture for Families.
62. Provide professional development support for faculty to develop service-learning experiences in appropriate courses.	<ul style="list-style-type: none"> • The university offers annual funding opportunities for Civic Engagement. All faculty are eligible to apply for these awards. • Faculty can apply for Professional Development funds to develop service-learning components to their courses.

TEC Goal 4: Strategy 3. Encourage collaborations with alumni and emeriti faculty.

Implementation Actions	FY24 Outcomes / Status
63. Arrange meetings with program coordinators and emeriti faculty to foster collaborative development initiatives.	<ul style="list-style-type: none"> • Ad hoc meetings with emeriti faculty are arranged when necessary. • Department chair maintains regular contact with the local emeriti group.
64. Maintain regular contact with alumni and friends (newsletter, website, campus events, award recognitions, etc.).	<ul style="list-style-type: none"> • News items are displayed regularly on the Department of Technology website and Facebook and LinkedIn pages. • Donor letters are sent monthly and highlight activities within the department.
65. Support faculty participation at events that engage alumni and friends.	<ul style="list-style-type: none"> • Faculty are encouraged to attend Alumni Day, Homecoming, Advisory Board meetings, and other events.

TEC Goal 4: Strategy 4. Model a culture of giving and philanthropy.

Implementation Actions	FY24 Outcomes / Status																						
66. Encourage all faculty to contribute to the Foundation on a regular basis.	<p><i>10-Year comparative summary of faculty/staff giving</i></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: yellow;">Year</th> <th style="background-color: yellow;"># Faculty/Staff Giving</th> </tr> </thead> <tbody> <tr><td>2023</td><td>16</td></tr> <tr><td>2022</td><td>16</td></tr> <tr><td>2021</td><td>20</td></tr> <tr><td>2020</td><td>20</td></tr> <tr><td>2019</td><td>8</td></tr> <tr><td>2018</td><td>9</td></tr> <tr><td>2017</td><td>11</td></tr> <tr><td>2016</td><td>12</td></tr> <tr><td>2015</td><td>10</td></tr> <tr><td>2014</td><td>13</td></tr> </tbody> </table>	Year	# Faculty/Staff Giving	2023	16	2022	16	2021	20	2020	20	2019	8	2018	9	2017	11	2016	12	2015	10	2014	13
Year	# Faculty/Staff Giving																						
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67. Where appropriate, talk about the importance of giving back to the University to current students and alumni.	<ul style="list-style-type: none"> • During the TEC Scholarship Reception, the chair talks about the importance of giving and how current scholarship recipients have benefited from donations to the Department. 																						

TEC Goal 4: Strategy 5. Maintain high quality instructional technology, facilities, and computing infrastructure.

Implementation Actions	FY24 Outcomes / Status
68. Submit group comments from TEC to the <i>Campus Master Plan</i> task force in support of new or upgraded facilities.	<ul style="list-style-type: none"> • When appropriate, the Department may submit entries to the Campus Master Plan blog.

<p>69. Annually update the <i>5-Year Facility and Major Equipment Plan</i> linked to departmental strategies.</p>	<p>Program Coordinators submit annual Resource Allocation Plans (RAP) for capital equipment and facilities improvements. Requests are prioritized and supported as funding allows. Programs are encouraged to include longer-term resource planning in their annual Plan of Work. Projects completed or in progress for FY24 include:</p> <ul style="list-style-type: none"> • Computer Systems Technology – Upgraded software. • Construction Management – Upgraded equipment in the soils area and at the Old Firehouse Building. • Engineering Technology – Upgraded robots and controllers in Integrated Manufacturing lab with TEC and Provost funds. • Graphic Communications Technology – Purchased a flexographic press. Received funds from the Provost’s Office. • Sustainable & Renewable Energy – Upgraded software. • Technology and Engineering Education – N/A.
<p>70. Annually invest in the department computer network infrastructure including hardware and software, projection equipment, computer lab updates, servers and security components.</p>	<ul style="list-style-type: none"> • Upgraded some faculty computers. • Replaced computers in TUR167 and TUR 171 with funding from AEF-TECH and TEC.
<p>71. Consider sustainability and environmental impacts when making material/equipment purchases and facility improvements.</p>	<ul style="list-style-type: none"> • Faculty are encouraged to provide electronic instructional materials to students to minimize printing. • Many faculty use VPN and Remote Desktop to work from off campus locations. • Most faculty utilizing Canvas for course management. • At least 8 online classes delivered in each of the past 8 summers.
<p>72. Annually update and implement the departmental <i>Advancement & Development Plan</i> that includes a long-range vision and funding targets for equipment, facility, and endowed scholarships.</p>	<ul style="list-style-type: none"> • <i>Departmental Development Plan</i> updated annually. • Our development officer (Toni Burningham) and dean (Chad McEvoy) have worked to increase major gift donors to the department. • Faculty have worked to secure major donations of software and equipment from friends of the Department.

TEC Goal 4: Strategy 6. Leverage the experience of advisory board members to strengthen and explore advancement opportunities.

Implementation Actions	FY24 Outcomes / Status
<p>73. Add advancement and development initiatives to regular advisory board meeting agendas.</p>	<ul style="list-style-type: none"> • TEC Coordinators are encouraged to add advancement and development initiatives to advisory board meetings. With the help of University Advancement, the Construction Management faculty have created an Industry Partnership Program to provide opportunities for organizations to support student activities.
<p>74. Encourage advisory board members to explore creative advancement and development opportunities.</p>	<ul style="list-style-type: none"> • When appropriate and when time permits, TEC Coordinators dedicate portions of their advisory meetings to advancement and development opportunities.

Departmental Measures of Productivity

A five-year listing of key measures of productivity are presented below. Additional measures are listed in the major accomplishments.

Degrees Conferred Fiscal Year	FY2019	FY2020	FY2021	FY2022	FY2023
B.S. Degrees (All Majors)	131	136	142	141	129
M.S. Technology Degrees	51	54	54	56	63

Enrollment by B.S. Degree – Fall Census Day	2019	2020	2021	2022	2023
Computer Systems Technology	63	60	63	69	80
Construction Management	177	187	198	208	203
Engineering Technology	120	104	128	145	156
Graphic Communication Technology	54	64	63	46	33
Sustainable & Renewable Energy	46	48	35	32	26
Technology & Engineering Education	33	39	35	32	32
Total	499	502	522	532	530
M.S. Technology – Fall Census Day	95	91	87	81	93

Fall Faculty FTE	2019	2020	2021	2022	2023
Tenure Track (Full-Time)	15	17	15	16	16
Tenure Track (Part-Time)	0	2	1	2	1
Full-Time Non-Tenure	5	5	6	6	5
Part-Time Instructors	18	12	12	17	15
Dept. Total	30	36	34	31	37

Credit Hours – by Fiscal Year	2019	2020	2021	2022	2023
Undergraduate Total	8,798	8,958	8,872	8,743	8705
Graduate Total	2,050	1,937	1,732	1,547	1526
Dept. Total	10,848	10,895	10,604	10,290	9931

External Funding Awards	FY 19	FY 20	FY 21	FY 22	FY23
# of Proposal	6.00	3.0	5.0	8.0	7.0
\$ Submitted	\$1,045,655	\$834,429	\$9,886,586	\$2,581,184	\$839,890
# of Awards	5.00	1.0	3.0	2.0	5.0
\$ Awarded	\$737,124	\$635,000	\$732,024	\$1,400,418	167,846

Source: Research and Sponsored Programs

Faculty Productivity Measures	2019	2020	2021	2022	2023
Refereed Journal & Proceedings (PIP)	22	16	20	12	15
Refereed Proceedings and Presentations	23	13	20	20	21
Books (new or revised editions)	0	0	0	2	0

Diversity Data / TEC Undergraduates					
Year	Fall 2019	Fall 2020	Fall 2021	Fall 2022	Fall 2023
Minority	124 (25%)	139 (28%)	165 (32%)	172 (32%)	179 (34%)
Non-Minority	375 (75%)	363 (72%)	357 (68%)	360 (68%)	351 (66%)
Total	499	502	522	532	530

Diversity Data / TEC Graduate Students					
Year	Fall 2019	Fall 2020	Fall 2021	Fall 2022	Fall 2023
Minority	10 (11%)	9 (10%)	7 (8%)	7 (9%)	9 (10%)
Non-Minority	85 (89%)	82 (90%)	80 (92%)	74 (91%)	84 (90%)
Total	95	91	87	81	93

* Of the 83 TEC graduate students enrolled in Spring 2023, 55 are International Students. Five students are in a 1 or 2 semester INTO Pathway program.

Gender Data / TEC Undergraduates					
Year	Fall 2019	Fall 2020	Fall 2021	Fall 2022	Fall 2023
Male	439 (88%)	432 (86%)	446 (85%)	474 (89%)	469 (88%)
Female	60 (12%)	69 (14%)	73 (14%)	57 (11%)	59 (11%)
Non-Binary or ND	0 (0%)	1 (0%)	3 (1%)	1 (<1%)	2 (<1%)
Total	499	502	522	532	530

Gender Data / TEC Graduate Students					
Year	Fall 2019	Fall 2020	Fall 2021	Fall 2022	Fall 2023
Male	46 (48%)	49 (54%)	51 (59%)	40 (49%)	48 (52%)
Female	49 (52%)	42 (46%)	36 (41%)	40 (49%)	44 (47%)
Non-Binary or ND	0 (0%)	0 (0%)	0 (0%)	1 (1%)	1 (1%)
Total	95	91	87	82	93

II. Internal Reallocations and Reorganizations

A. Describe any reallocations or reorganizations including the movement of positions, the upgrade of positions, the creation of new positions, or the reallocation of personnel or operating funds.

Variance and instructional capacity dollars were used to fund part-time non-tenure track, full-time non-tenure track faculty, and summer courses.

B. Describe how the unit used additional funds from the Provost Office to enhance accomplishments and productivity. Additional Provost Office funds could include funding sources such as: Instructional Capacity funds, Summer Session funding, Academic Enhancement Funds, or variance dollars.

Enhancement Dollars

In 2023, TEC received \$232,583 in Provost funds, \$100,000 in CAST funds, and used \$20,000 in TEC funds to purchase a Hybrid Digital Flexographic Press for our Graphic Communications Technology program.

TEC also received \$21,358 in Provost Academic Enhancement Fee funds to help offset the cost of upgrading computers in Turner 171.

Variance Dollars

Variance was utilized to fund qualified part-time non-tenure track faculty, and full-time non-tenure track faculty. Also see the following report and data regarding instructional capacity accountability.

Instructional Capacity Funds

Describe the use of instructional capacity funds and how these funds have helped meet the goals and priorities of the College/Unit. Include plans for any component of instructional capacity not yet fulfilled for FY23 (as applicable).

The CAST Strategic Plan, Goal 1 states, “Integrate relevant applied learning and technologies to provide an exemplary educational experience focusing on individual goals for both undergraduate and graduate students.” Under Goal 1, Strategy 4 says “Employ and retain diverse faculty who are equally motivated by high quality teaching and scholarly activity.” Instructional capacity funds directly support these College goals and priorities. The Department of Technology has a similar goal to “Provide state-of-the-art applied learning environments for undergraduate and graduate students in high-demand disciplines.” Instructional capacity funds are allocated to the Department of Technology for each academic year from the CAST allocation.

In FY24, the Department of Technology was allocated \$128,553.75 of instructional capacity funding from CAST and spent \$162,729.00 on classes taught by adjunct instructors. Of that total, \$0.00 came from buy-out support from grants or faculty teaching release for services provided to other academic units. Therefore, the total paid from Technology resources to maintain instructional capacity was \$34,175.25. Detailed instructional capacity expenses have been submitted to CAST in a separate document.

C. Describe how the unit used additional funds from College/Department/School/Unit to enhance accomplishments and productivity. Additional College/Department/School/Unit funds could include such as: external funding, Foundation funds, variance dollars (note: this does not include variance dollars from AIF), or external contracts.

External Funding

- TEC students received approximately \$20,000 in externally funded scholarships from corporate or professional organizations.
- Registered Student Organizations received over \$5,000 in industry support for student travel and expenses to participate in conferences and competitions sponsored by professional organization.
- Corporate partners provide a wide range of industry caliber software at no or low cost. Software provided at no cost includes Cadenas Partsolutions, EAF, On-Center, QuickBid, Palisade @RISK, BlueBeam, Esko Artios CAD, EFI Digital Store Front, PrintPoint 7.0, PrintSmith, Purlen, and XMPie uCreate. Software purchased at discounted educational pricing includes Articulate, Siemens NX, and RobotStudio. The following software is used at no cost to the Department through AutoDesk’s educational licensing agreements: AutoCAD, Building Design Suite Ultimate, and Inventor.

Foundation Funding

The table below summarizes the value of gifts and the number of donors during the past five years. This number includes regular “Gladly we Give” contributions by 3 Illinois State

University faculty/staff. Sources of funding to Foundation TEC accounts include alumni gifts, corporate matching gifts, Annual Fund, in-kind donations, scholarship sponsors, emeriti, and faculty/staff payroll deductions. Endowment yields and other Foundation accounts funded approximately \$72,933 in annual scholarship awards or program enhancement funding.

Year	Amount	# of Donors
2023	\$244,837	173
2022	\$192,005	156
2021	\$172,602	153
2020	\$250,839	202
2019	\$168,228*	177

**Does not include in-kind software donations*

External Contracts

As reported by Research and Sponsored Programs, Technology faculty submitted proposals for grants and contracts totaling \$839,890 and was awarded \$167,846 in external support. Following are the highlights from external funding in 2023.

- Aldeman, M. (PI), Jo, J. H. (Co-PI), Meyer, A. (Co-PI), Zamudio, M. (Co-PI), Williams, J. (Co-PI) were awarded a \$1,349,744 NSF Grant titled “*SUPERCHARGE: STEM-based University Pathway Encouraging Relationships with Chicago High Schools in Automation, Robotics, and Green Energy*,” July 2022 – June 2026.
- Aldeman, M. (Co-PI) received a sub-award of \$29,999 from the Illinois Innovation Network titled “*Designing Equitable and Sustainable STEM Education with Renewable Technologies (DESSERT)*,” September 2022 – August 2023.
- Jin, G. (PI), Solanki (Co-PI) were awarded a \$29,955 grant from the Illinois Innovation Network titled “*Geopolymer Concrete for Sustainable Construction and Beyond*”. April 2022 – March 2023.
- Chang, H. (PI) was awarded a \$133,000 grant from State Farm “*VR-assisted Scenario-based Learning for Teenage Drivers (Phase One)*”. June 2023 – December 2023.
- Chang, H. (PI) was awarded a \$315,209 grant from State Farm “*Tenn Drive Safely System Validation and Learning Assessment (Phase Two)*”. January 2024 – May 2025.
- Collectively, these activities have enhanced the mission and productivity of the department by (a) providing indirect funds, (b) developing and maintaining vitally important involvement of faculty with industry, (c) providing opportunities for student involvement, and (d) generating data and experience for application in faculty publications and presentations.

AEF Tech Funds

Tech tuition funds are utilized to support computer laboratory monitors (student workers) and to upgrade equipment in eligible laboratories.

Fiscal Year	Tech Tuition / AEF Funds
2024	\$79,938
2023	\$21,358
2022	\$132,302
2021	\$62,059
2020	\$45,973
2019	\$41,615
2018	\$44,404
2017	\$25,973

III. Major Objectives for FY25

Describe the unit’s most important forward -looking objectives related to academic program development, Equity, Diversity and Inclusion, Faculty Success, and Student Success. Outline how the objectives support the mission/goals of the Unit/Department/School, College and *Educate•Connect•Elevate*. Shown below are the goals for the Department of Technology as framed within the *Strategic Directions, Objectives, and Actions* of the Universities Strategic Plan.

A. Academic Program Development – Supports Goals 1 & 2 of *Educate•Connect•Elevate*, Goal I of the CAST Strategic Plan, and Goal 1 of the Department of Technology’s Strategic Plan.

1. Submit a self-study for our Engineering Technology program to the Accreditation Board for Engineering and Technology (ABET) by July 1, 2024. Engineering Technology. Have a successful site visit in Fall 2024.
2. Faculty in all areas are examining their curricula to make revisions before the Fall 2024 deadlines.
3. Submit quote for the renovation of Turner 173 A & B. *AEF Provost Request*.
4. Upgrade computers in Turner 210. *AEF Tech Request*.
5. Upgrade Coordinate Measuring Machine in Turner 160. *AEF Tech Request*.

B. Equity, Diversity, and Inclusion – Supports Goals 1 & 3 of *Educate•Connect•Elevate*, Goal II of the CAST Strategic Plan, and Goal 3 of the Department of Technology’s Strategic Plan.

1. Continue to dedicate at least one faculty meeting per year to professional development related to respect and inclusion.
2. Continue department-wide events that include faculty, staff, and students.

3. Continue participation in professional development activities related to inclusion.
4. Continue the number of international opportunities for students and faculty.
- C. Faculty Success – Supports Goals 1, 2, 3, & 4 of *Educate•Connect•Elevate*, Goals II & III of the CAST Strategic Plan, and Goal 2 of the Department of Technology’s Strategic Plan.
 1. Enhance learning and professional development opportunities. Mentor and provide professional development opportunities for the junior faculty who have joined our department over the past several years.
 2. Increase grant-writing activities and administrative support for scholarship.
 3. Recruit highly qualified faculty.
 4. Successfully transition new faculty into the department.
 5. Recognize faculty & staff excellence through nominations for CAST & University awards.
- D. Student Success – Supports Goals 1, 3, & 4 of *Educate•Connect•Elevate*, Goals I & II of the CAST Strategic Plan, and Goal 1 of the Department of Technology’s Strategic Plan.
 1. Explore ways to increase the retention and graduation rates of students.
 2. Continue investigating ways to increase enrollments in Graphic Communications Technology, Sustainable & Renewable Energy, and Technology & Engineering Education.
 3. Create awareness of opportunities for students to engage in research.
 4. Continue career development and readiness opportunities for students.

Major FY25 Objectives mapped to the Department of Technology Goals and Action Items

Goal 1: Provide state-of-the-art applied learning environments for undergraduate and graduate students in high-demand disciplines.

Action Items – Students

1. Explore ways to increase the retention and graduation rates of students.
2. Continue investigating ways to increase enrollments in Graphic Communications Technology, Sustainable & Renewable Energy, and Technology & Engineering Education
3. Create awareness of opportunities for students to engage in research.
4. Continue career development and readiness opportunities for students.

Action Items – Curriculum

5. Submit a self-study for our Engineering Technology program to the Accreditation Board for Engineering and Technology (ABET) by July 1, 2024. Engineering Technology. Have a successful site visit in Fall 2024.
6. Faculty in all areas are examining their curricula to make revisions before the Fall 2023 deadlines.

Action Items – Facilities and Equipment

7. **Computing:** The department maintains approximately 200 computers distributed amongst four primary PC computer laboratories (TUR 160B, 167, 171, and 210), one PC networking lab (TUR 173), one Mac laboratory (NSB 010), two construction management study labs (TUR 120B & 120D), faculty, staff, and GA office machines, and various other laboratory support functions. To maintain industry level computing power, our goal is to systematically upgrade one computer lab per year and then rotate out our lowest performing machines. In FY24 we upgraded some faculty computers and upgraded the monitors in TUR171. The plan for FY25 is to upgrade the computers and monitors in TUR210.

8. **Technology Laboratories**

Quotes are being gathered to renovate TUR173 and TUR173B (Computer Systems Technology Classroom and Networking Lab) and to purchase a new Coordinate Measuring Machine for Engineering Technology in TUR160.

Goal 2: Support and reward faculty and staff excellence.

Action Items – Faculty

9. Enhance learning and professional development opportunities. Mentor and provide professional development opportunities for the junior faculty who have joined our department over the past several years.
10. Increase grant-writing activities and administrative support for scholarship.
11. Recruit highly qualified faculty.
12. Successfully transition new faculty into the department.
13. Recognize faculty & staff excellence through nominations for CAST & University awards.

Action Items - Research & Scholarship

14. Deliver on existing grants and continue to pursue external grant and contract opportunities.
15. Partner with other ISU units and external organizations to pursue new grants and contracts.

Goal 3: Promote a culture of respect and inclusion among faculty, staff, and students.

16. Continue to dedicate at least one faculty meeting per year to professional development related to respect and inclusion.
17. Continue department-wide events that include faculty, staff, and students.
18. Continue participation in professional development activities related to inclusion.
19. Continue the number of international opportunities for students and faculty

Goal 4: Enhance the effectiveness of the Department by strengthening engagement.

Action Items – Advancement and Development

20. Encourage a culture of philanthropy.
21. Increase involvement in outreach, consulting, and leadership activities.
22. Continue civic engagement activities for students, faculty, and staff.
23. Facilitate more collaborations with alumni.

END