



THE UNIVERSITY OF TENNESSEE CHATTANOOGA
**COLLEGE OF ENGINEERING
 & COMPUTER SCIENCE**

2022-2027 Strategic Plan

VISION: *To be a preeminent college of engineering, technology, and computer science in education and applied research.*

MISSION:

- (1) *Educate and train future technical workforce for Tennessee, the nation, and beyond.*
- (2) *Discover new knowledge in engineering, technology and computer science.*
- (3) *Engage communities through scholarship and service.*

Objectives ▼		Goals ▶	1. Enrich Student Experience	2. Cultivate excellence in teaching and learning	3. Enhance applied research capabilities of the college for broader impact to the society	4. Engage community through scholarship and service with leadership and distinction	5. Enhance national/international reputation and recognition
A.	Enhance <i>student learning</i> and faculty teaching (1, 2)		✓	✓			
B.	Expand and enhance <i>graduate programs</i> (1,2,3)		✓		✓		
C.	<i>Diversify and increase</i> student and faculty population (1,2,3)		✓	✓			
D.	Establish and support <i>engagement</i> activities for student success (1,2)		✓	✓			
E.	Strengthen <i>research</i> expertise (1,3,4)		✓		✓		✓
F.	Increase <i>partnerships</i> with external academic, government, and industry organizations (1, 3)		✓		✓	✓	✓
G.	Increase <i>leadership</i> roles by faculty, staff, and students in service, professional, and academic communities (2,3)				✓	✓	✓
H.	Increase <i>outreach and marketing</i> strategies (4)					✓	✓
I.	Excel in resource development and stewardship (4)		✓	✓	✓		

* Numbers within the parenthesis represent alignment with the UTC strategic plan goals shown below.

UTC Goals: 1. Teaching and Learning
 3. Research and Innovation

2. Diversity
 4. Stewardship and Resources

ASSESSMENT TOOLS	METRICS	ACTIONS
A. Enhance <i>student learning</i> and faculty teaching (1,2)		
Maintain current students/faculty ratio	26/1	<ul style="list-style-type: none"> • Increase faculty size (Dean/Heads) • Establish teaching workshops (Assoc. Dean/Heads) • Secure external funding (Dean/Heads) • UG research/teams/prof societies (Heads/faculty) • Retention/ freshman experiences (Heads/SC Director)
# of new hands-on experiences (courses)	1 new/year/program	
% of courses - incorporating new and innovative methods for improving teaching	Improving two courses/year/department	
% of undergraduate research experiences	5%/10% (paid/unpaid)	
% of internships and co-ops/year (out of students who seeking)	70%	
% students participating prof societies	50%	
new research labs/classrooms	30,000 sq ft	
% of retention and graduation rate	70% / 50% (6 years)	
# of freshman experience activities	One new/year/program	
fraction of faculty participation in training workshops	1/3 per year	
B. Expand and enhance <i>graduate programs</i> (1,2, 3)		
# of new graduate programs/concentrations/certificates	One new program/ concentration/ certificate	<ul style="list-style-type: none"> • Programs (faculty/Heads) • Recruitment strategies (Assoc Dean/Heads/SC Director) • Funds (Deans/Heads)
# of internally funded GA's	Increase by 5	
# of graduate students supported by external grants	7% increase/year	
% of increase in enrollment	10% increase/year on average	
C. <i>Diversify and increase</i> student and faculty population (1,2)		
% of female students and faculty	Students: 20 % ; Faculty: 20 %	<ul style="list-style-type: none"> • Recruitment strategies (Assoc Dean/Heads/SC Director)
% of minority (other than female)	Exceeds national benchmarks	
% increase in enrollment (UG+G)	7% increase/year	
D. Promote faculty and staff <i>service engagement</i> activities for student success (1,2)		
# of students in LC	10% of UG student population	<ul style="list-style-type: none"> • Programs (SC Director)
# of new major engagement activities (Career Fair, etc.)	one/year	
E. Strengthen <i>research</i> expertise (1,3,4)		
Career/YIY/National awards	5 new awards	<ul style="list-style-type: none"> • Awards(Heads) • Funding Opportunities(Deans/Heads) • Pub/presentations/ funding/expenditure (faculty)
\$ awarded by faculty	\$150k/faculty on average	
# students presenting in national conferences	20 (4/department)/year)	
# publication + presentations	4/faculty on average/year	
\$ research expenditure	\$10 M	

ASSESSMENT TOOLS	METRICS	ACTIONS
F. Increase <i>partnerships</i> with external academic, government, and industry organizations (1, 3)		
# academic or transfer programs (2+2, 4+1, etc.)	3 new programs	<ul style="list-style-type: none"> • Programs/activities (faculty/Heads) • Partnerships/ competitions (faculty Heads/Deans)
# community-impact projects	10% growth	
# of industry partners/projects funded	10% growth	
# Exchange programs (faculty)	10	
# national/international activities (students)	5 new activities	
# national/international collegiate competitions	5 new programs	
G. Promote <i>leadership</i> roles by faculty, staff, and students that demonstrate excellence (2,3)		
% faculty/staff serving on external committees/boards/panels	25%	<ul style="list-style-type: none"> • Leadership roles/ workshops (faculty/ staff) • Service (SC Director/staff/faculty) • Awards (Deans/ Heads)
% faculty holding the leadership roles in professional societies	25%	
% of students participating in community services	75% of student orgs	
# external, national teaching/research awards	10	
# student external awards/recognition	10	
# society fellows	3	
# organizing workshops/conferences/journal issues	10	
H. Increase <i>outreach and marketing</i> strategies (4)		
# of community STEM activities	10 % increase	<ul style="list-style-type: none"> • Community visits/ activities (SC Director/staff) • Training (faculty) • Publications/ media (Deans/Heads) • Alumni events (Deans/Heads)
# teachers trained	50% increase	
# of visits to high/middle/community schools	one/faculty/year on average	
# college publications (annual reports/magazines) online and hard copy	2 new	
# of major alumni events (recruitments/Ads)	2 new	
# media presence (TV, Billboards, Radio, social media, website, booklet, etc.)	one new/year	
I. Excel in <i>resource development and stewardship</i> (4)		
# of gifts from donors and friends	\$1M/year Target: \$2M/year	<ul style="list-style-type: none"> • Gifts/space (Dean/Heads)
# renovated lab space	5 (1/department)	

- All faculty and staff will support the *actions* with ones designated within parentheses working as leaders.
- If not indicated, the metric shown is for five years.