



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

2015-2020 Strategic Plan

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

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

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 student learning and faculty teaching (1, 2)		✓	✓			
B.	Expand and enhance graduate programs (1,2)		✓		✓		
C.	Diversify and increase student and faculty population (4)		✓	✓			
D.	Establish and support engagement activities for student success (1,4)		✓	✓			
E.	Strengthen research expertise (2,3)		✓		✓		✓
F.	Increase partnerships with external academic, government, and industry organizations (1, 2)		✓		✓	✓	✓
G.	Increase leadership roles by faculty, staff, and students in service, professional, and academic communities (2,4)					✓	✓
H.	Increase outreach and marketing strategies (3)					✓	✓

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

- UTC Goals:**
- 1. Transform lives through meaningful learning experiences.
 - 2. Inspire, nurture and empower scholarship, creativity, discovery, innovation, and entrepreneurial initiatives.
 - 3. Ensure stewardship of resources through strategic alignment and investments.
 - 4. Embrace diversity and inclusion as a path to excellence and societal change.

ASSESSMENT TOOLS	METRICS	ACTIONS
A. Enhance <i>student learning</i> and faculty teaching (1, 2)		
students/faculty ratio	maintain ratio	<ul style="list-style-type: none"> Increase faculty size (Dean/Heads) Establish teaching workshops (Assoc. Dean/Heads) Establish student Success Center (SC) (Dean/Heads) Enhance advising and tutoring support (SC Dir.) Secure external funding (Dean/Heads)
# of new hands-on experiences (courses)	25, 5/year	
# of development new activities for alternative teaching methods (online, hybrid, non-traditional)	25, 5/year	
% of undergraduate research experiences	25 %	
% of interdisciplinary (externally sponsored) team projects/year	50%	
% of internships and co-ops/year	50 %	
% students participating extracurricular activities (prof societies) Certificates	70%	
new research labs (sponsored) /classrooms	~15,000 sq ft	
increase % of retention and graduation rate	first year retention rate by 20%; 6-year graduation rate by 20% (5% by year)	
FE exams passing rate (engineering)	80%	

B. Expand and enhance <i>graduate programs</i> (1,2)		
# of new graduate programs/concentrations/certificates	3 in 5 yrs	<ul style="list-style-type: none"> Develop and implement student recruitment strategy (Assoc. Dean/Heads) Hire senior faculty Increase external funding (Faculty)
# of GRAs/GTAs	increase by 100 % ~ 24 total	
# of graduate students supported by external grants	increase by 100% ~30	
% of increase in enrollment	increase by 100% ~ 360	

C. <i>Diversify and increase</i> student and faculty population (4)		
% of female students and faculty	UG: 18%; Faculty: Increase by 25%	<ul style="list-style-type: none"> Recruitment visits to community colleges and high schools (Faculty) Establish joint programs (Dean/Heads)
% of minority (other than female)	UG: increase by 25% (current ~11%)	
% increase in enrollment (graduate/undergraduate)	2020 students by 2020	
% of domestic student population in graduate programs	increase by 25%	

D. Promote faculty and staff <i>service engagement</i> activities for student success (1,4)		
Establishment of student success center (SC) (Director and personnel) (tutoring, internships, Co-ops, advising, etc)	Y/N	<ul style="list-style-type: none"> Develop student engagement opportunities (SC Dir/ Faculty/Staff)
# of new major engagement activities (LLC initiatives, Career Fair)	5 in 5 yrs	

* All faculty and staff will support the *actions* with ones designated within parentheses working as leaders.

ASSESSMENT TOOLS	METRICS	ACTIONS
E. Strengthen <i>research</i> expertise (2,3)		
# publications/faculty (college average)	minimum of 2 paper/yr	<ul style="list-style-type: none"> Develop and implement faculty mentorship (Dean/Heads) Establish research seminars (Heads) Strengthen ties with SimCenter research (Faculty)
# presentations/faculty (college average)	minimum of 2/yr	
\$ awarded by faculty	\$4M/yr by 2020	
# of proposals submitted (college average)	minimum of 2 proposals/yr/faculty as PI	
\$ research expenditure	\$1M/yr	

F. Increase <i>partnerships</i> with external academic, government, and industry organizations (1, 2)		
# joint projects	5 new projects/yr	<ul style="list-style-type: none"> Develop and implement coordinated plan for partnerships (Dean/Heads)
# joint programs (2+2, 4+1, etc.)	3 new programs	
# exchange programs (faculty)	5 new programs	
# of post-docs	one new post-doc per year	

G. Promote <i>leadership</i> roles by faculty, staff, and students that demonstrate excellence (2,4)		
% faculty serving on external committees/boards/panels	20%	<ul style="list-style-type: none"> Identify and seek recognition opportunities (Assoc. Dean/ Faculty/Staff) Allocate fund to promote faculty and students (Dean/Heads)
% faculty holding the leadership roles in professional societies	20%	
% of students participating in community services	30%	
# external teaching/research awards received by faculty	3	
# student external awards/recognition	10/yr	
% of student competition participated	Increase by 20%	
# of invited speakers/papers/chapters/books	Increase by 50%	
# society fellows/career awards	2	
# of chairing conferences/panels/workshops	5/yr	
# professorships	2	
# endowed professorships	1	

H. Increase <i>outreach and marketing</i> strategies (3)		
# of community STEM activities	one additional one/year	<ul style="list-style-type: none"> Partner with industry for STEM activities (SC Dir/Faculty) Support outreach/ alumni activities led by Student Success Center (Faculty/Staff) Allocate fund for media presence (Dean/Heads)
# PE faculty	Increase by 10 % (engineering)	
# of visits to high/middle/community schools	20/year	
# teachers trained	Increase by 25 % in 5 years	
# college publications (annual reports/magazines) online and hard copy	additional one per year	
# of major alumni events (recruitments/Ads)	one every other year	
Increase media presence (TV, Billboards, Radio, FaceBook, website, booklet, etc.)	increase one medium per year	