TENNESSEE TECHNOLOGY UNIVERSITY

COLLEGE OF ENGINEERING
Cookeville, TN

STUDENT CENTERED INTERDISCIPLINARY ENGINEERING BLDG.

THE PROJECT

Tennessee Technological University intends to build a 60,000 net assignable square foot (NASF) building for the College of Engineering at a construction cost of $40,000,000.

CHALLENGE

The planning for the Student Centered Interdisciplinary Engineering Building began with a College of Engineering high-altitude measure of order of magnitude space needs under a projected growth scenario of faculty and students. The time frame is a projection to the year 2032—a fifteen-year estimate at what the College might need in the future. The model provides a framework to understand the scale and ambitions of the College over time but will ultimately be calibrated and determined by the actual growth that the departments will see in the future. It is also important to understand that any new or renovated facility will be informed by a detailed programming exercise that will further refine and adjust the projections as necessary.

SOLUTION

The overall need of the College of Engineering over the next 15 years is for 164,000 NASF. How much space should be added to the College first and what are the priorities? Meetings with the Dean and department chairs quickly reached consensus on constructing an interdisciplinary, student centered, engineering building. Balancing the space needs with the financial resources that might be available, the University decided that a $40,000,000 target should be established to guide the programming discussions.

The facility program reflects the chair and department discussions that have taken place within the past several months. Those discussions highlighted a need for scheduled classrooms and labs, student collaboration spaces, specialized research labs, design/computational studios, faculty offices, and space for student projects. The spaces are allocated as follows:

Classrooms	15,250 NASF
Class Labs with Hoods	10,530 NASF
Collaboration/Small Group	2,950 NASF
Faculty and Student Research Labs	5,900 NASF
Design/Computational Studios	2,870 NASF
Student Success Center	2,640 NASF
Grad Student Offices	3,200 NASF
Faculty Offices	2,500 NASF
Student Project Areas	11,000 NASF
Atrium, Club Offices, Study Room	3,300 NASF
Total NASF	**60,140 NASF**

Preliminary Drawings by: Bauer Askew Architects

RESULTS

This project has been submitted to the University's Board and submitted to the State as a capital project for advancement.

REFERENCE
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