



Trident Technical College

TTC: General

- 2nd largest undergraduate enrollment in S.C. – with approximately 17,500 students (USC Columbia – 22,500; Clemson 16,000)¹ – and 1st in terms of undergraduate in-state residency.
- Has the least amount of classroom and lab space, per student, of any higher education institution in South Carolina – 49.5 sq.ft. The average amount of such space across all higher education institutions in South Carolina is 114 sq.ft.²
- By comparison, the *Council of Educational Facility Planners International* calculates that the average high school in the U.S. contains 101.9 to 160.7 sq.ft., per student.³

TTC: Aeronautics Program

- Best educational value in South Carolina – the most expensive aeronautic two-year degree costs \$4,290 in total tuition/fees – many aeronautics salaries pay \$40k to \$89k within a few years of graduation.
- Along with readySC, has roughly 1,300 participants “enrolled” in aeronautics programs.
- These 1,300 students utilize approximately 59,000 sq.ft. of building space (roughly 45 sq.ft. per student).
- There are at least another 135 people on the current waiting list to matriculate.
- Aerospace expansion and supplier demand are projected to increase the student body by 62% or 800 students annually (for a total aeronautics student body of roughly 2,100).

TTC: Motive & Need

- To advance S.C. as a true aeronautic cluster for companies other than Boeing, modern and adequate training facilities are needed (such as exist in Wichita).
- Industry analysts believe that Boeing may make a decision regarding a replacement for the 757 as early as 2017/2018 – the added capacity to train workers means that S.C. can be better positioned for the 757 decision than it was for the 777 in terms of its ability to absorb Boeing’s workforce requirements.⁴
- Absent adequate state funding, the local match of roughly \$20M (see below) will be withdrawn.
- Currently: Insufficient and aging space – 45 sq.ft. is too small and the newest building housing aeronautical training is 31 years old.

- Currently: Aeronautic classrooms and labs are distributed across 2 campuses and 5 buildings – which need to be consolidated for efficiency and closer proximity to industry.
- Need: 165,000 sq.ft. of classrooms & shops/labs and 50,000 sq.ft. of open bays to accommodate aircraft, large aircraft parts, and training aids for the onsite instruction of students (resulting in 102 sq.ft./per student).
- Construction would occur on 25 acres of raw land owned by TTC adjacent to the Main Campus – *i.e.*, the Enterprise Campus. See, S.C. Code Section §§ 59-53-460 *et. seq* (citing 2006 Act No. 368, § 1).

<u>Aeronautical Center</u>			
Projected Total Cost	\$ 79,000,000		100.0%
Less:			
Charleston County: Cash (contingent on State funding of the balance)	\$ (18,750,000)	23.7%	
Trident Tech: Cash	\$ (4,000,000)	5.1%	
Trident Tech: Raw Land	\$ (4,125,000)	5.2%	
City of North Charleston: Roads (contingent on State funding of the balance)	<u>\$ (1,000,000)</u>	<u>1.3%</u>	<u>-35.3%</u>
Needed State Funding	<u>\$ 51,125,000</u>		<u>64.7%</u>

1 Source: S.C. Commission on Higher Education, Headcount Enrollment - Undergraduate, http://www.che.sc.gov/New_Web/Rep&Pubs/Enrollment/2011-12.htm.

2 Source: S.C. Commission on Higher Education, Sq. Ft. of Academic Facilities per FTE Student, http://www.che.sc.gov/Finance/CHEMIS/Fall2011/Facilities/Sq_FT_ACAD_rep.pdf.

3 Source:
http://www.eric.ed.gov/ERICWebPortal/search/recordDetails.jsp?ERICExtSearch_SearchValue_0=ED426574&searchtype=keyword&ERICExtSearch_SearchType_0=no&_pageLabel=RecordDetails&accno=ED426574&_nfls=false&source=ae.

4 Source: <http://www.bloomberg.com/news/2014-02-11/boeing-ponders-transcontinental-plane-to-replace-757.html>;
http://seattletimes.com/html/business/technology/2022883124_boeingregionaljetxml.html; <http://airchive.com/blog/2014/02/11/next-boeing-clean-sheet-will-probably-757-replacement>;