

Dixie State University

Science, Engineering &
Technology Building



2018-2019

Capital Development Request

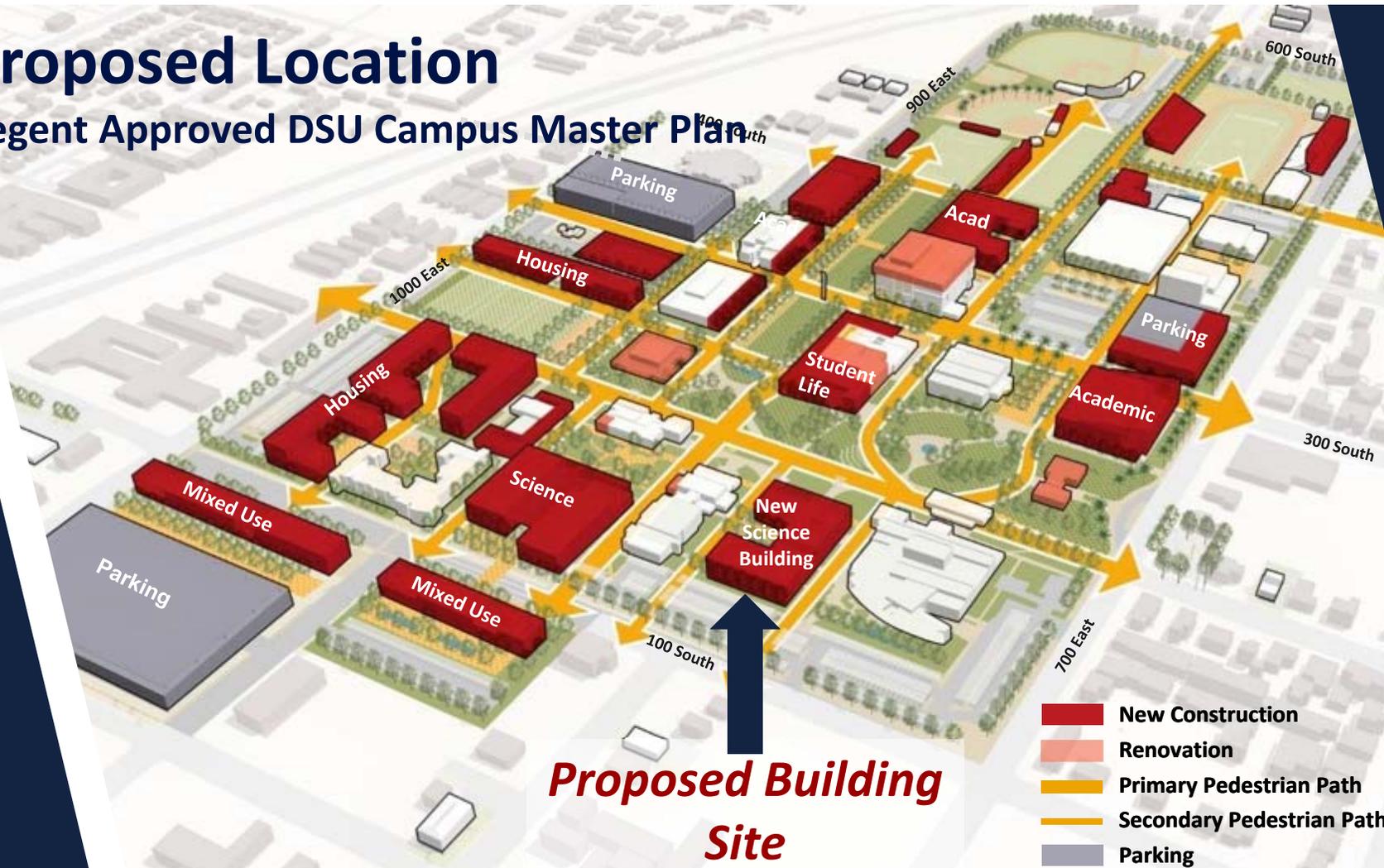
Science, Engineering & Technology

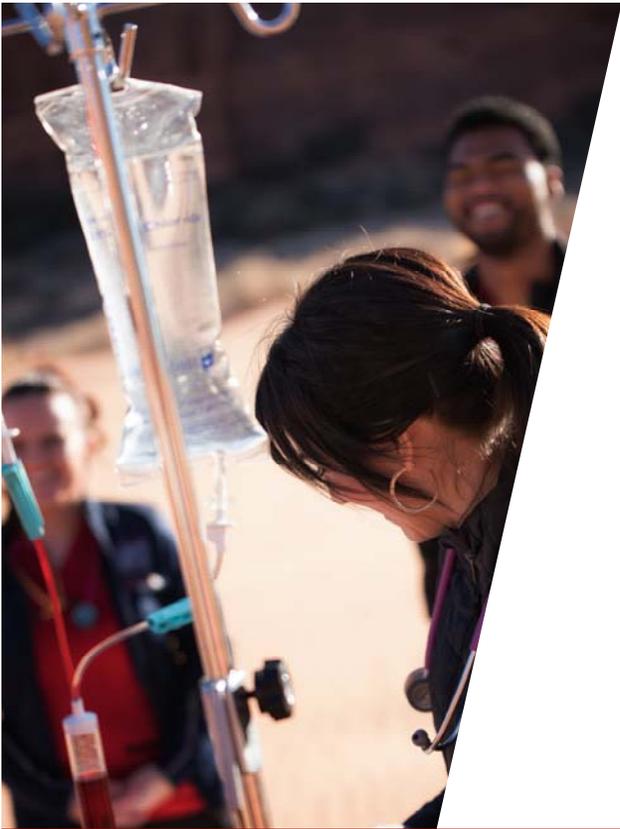


- 120,000 sq. ft.
- \$821,276 O & M
- \$579 Million
- Multi-story
- Program / Design

Proposed Location

Regent Approved DSU Campus Master Plan





Completion

Capacity

Workforce



Needs Criteria

DS



Completion

D SU Growth

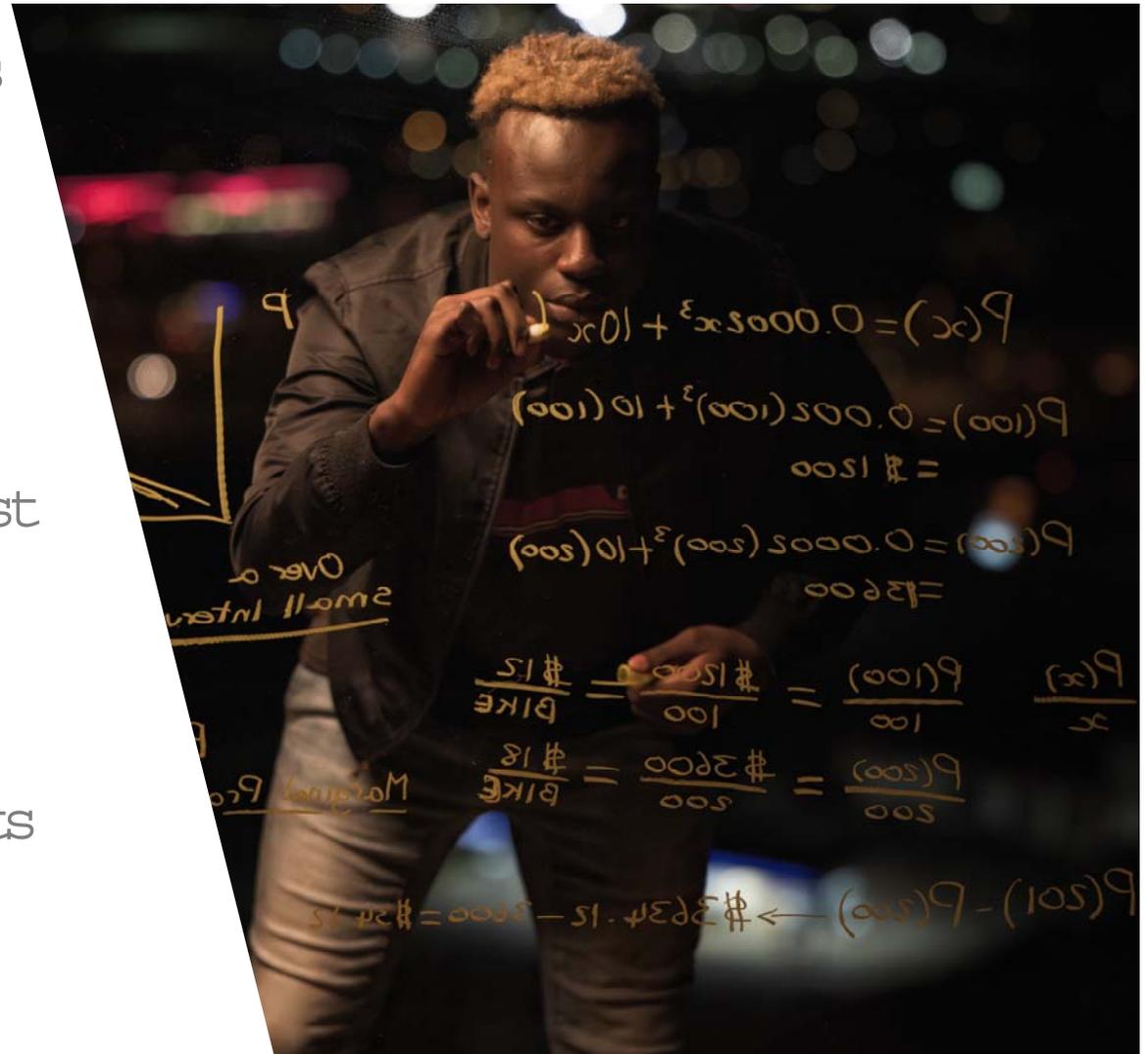
16%





- Physiology Course and Lab enrollment increased 53% and 66% past five years
- Anatomy labs run 14 hours a day (49% increase in past five years)
- Laboratories are too small to safely accommodate standard class sizes
- Triple number of laboratories needed to accommodate student enrollment

- Biology Enrollments have increased 55% in last five years (4,400)
- Chemistry Enrollments have increased 80% in last five years (2,000)
- First Mechanical Engineering Class enrolled 159 students this fall



New Degrees Programs

STEM Concentration

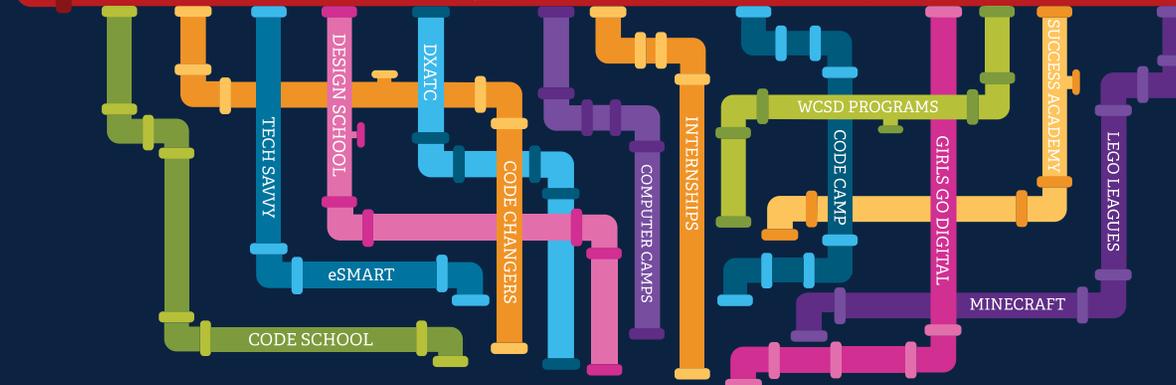
- Digital Design
- Chemistry
- Mechanical Engineering
- Information Systems & Data Analytics
- MS Genetic Counseling
- MS Software Development
- Bioinformatics
- Computer Science



DIXIE STATE UNIVERSITY™ K-16 Pipeline

41,800 K-12 STUDENTS FROM 5 SOUTHERN UTAH COUNTIES *

*Beaver, Garfield, Iron, Kane, Washington



The goal of the DSU STEM K-16 Pipeline is to build and sustain an educational and engaging course for students in Southern Utah to fill the demand for qualified tech talent in the local private sector and fuel the robust labor market.

- FIRST Lego League:** grades K-9
- Minecraft:** grades K-9
- Tech Savvy:** girls grades 6-9
- eSmart:** girls grades 7-8
- Code Camp:** grades K-adult
- CodeChangers:** grades 2-12
- Computer Camps:** grades 2-12
- WCSO Concurrent Enrollment:** grades 10-12
- Girls Go Digital:** grades 2-12
- SUCCESS Academy:** grades 10-12
- Code School:** 18 years-up
- Design School:** grades 11-up
- Internships:** University level
- DXATC:** grades 10-up

Of the 400 DSU CIT students in 2015, there were 40 graduates. We aim to not only boost the number of students but also increase the number of qualified, job-ready graduates.

DSU™

COLLEGE OF SCIENCE AND TECHNOLOGY

- 24 bachelor's degrees
- 10 minors
- 2 associate degrees
- 2 certificates

Plans for masters of science in computer science



DSU™

Capacity

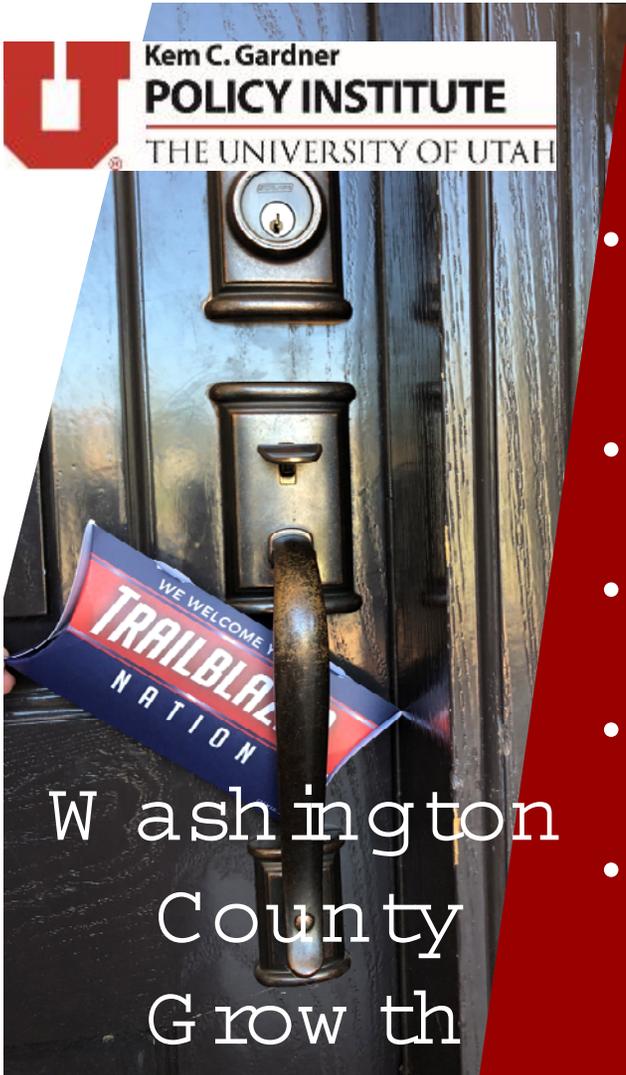




Kem C. Gardner

POLICY INSTITUTE

THE UNIVERSITY OF UTAH

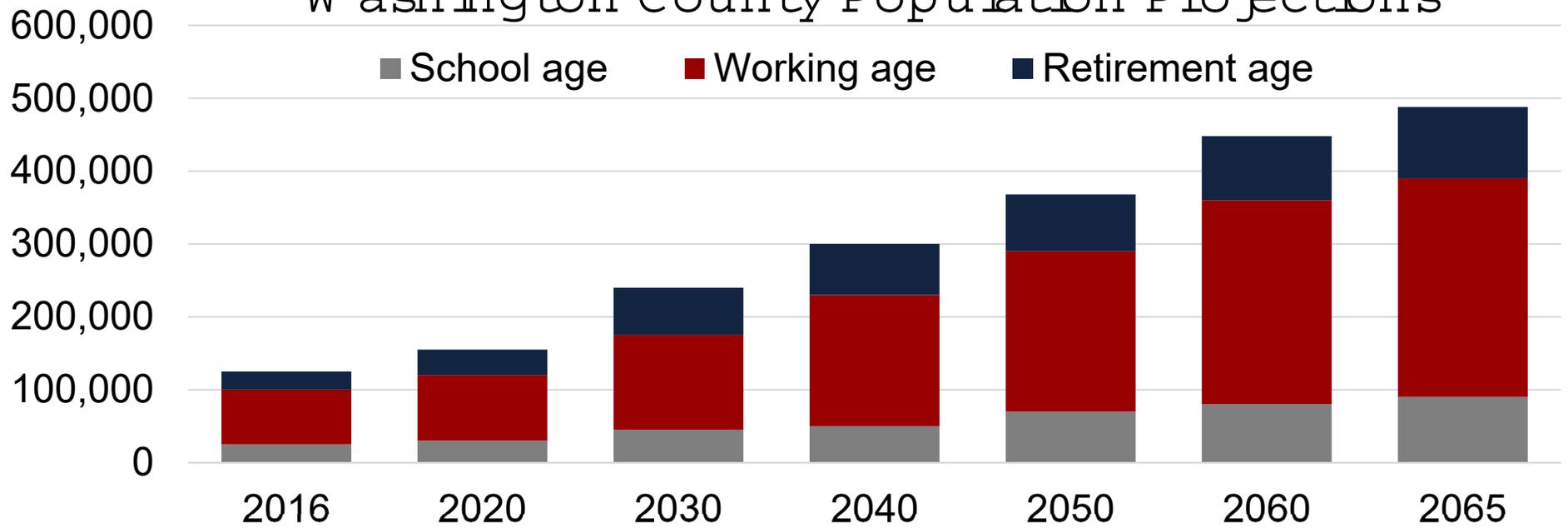


Washington County Growth

- Fastest Growing Urban Area in United States (US Census Bureau)
- 229% Increase over 50 years
- 219,019 Population by 2025
- 355,549 Population by 2045
- 509,000 Population by 2065



Washington County Population Projections





Dixie State University Facility Need Management



Existing Science Building

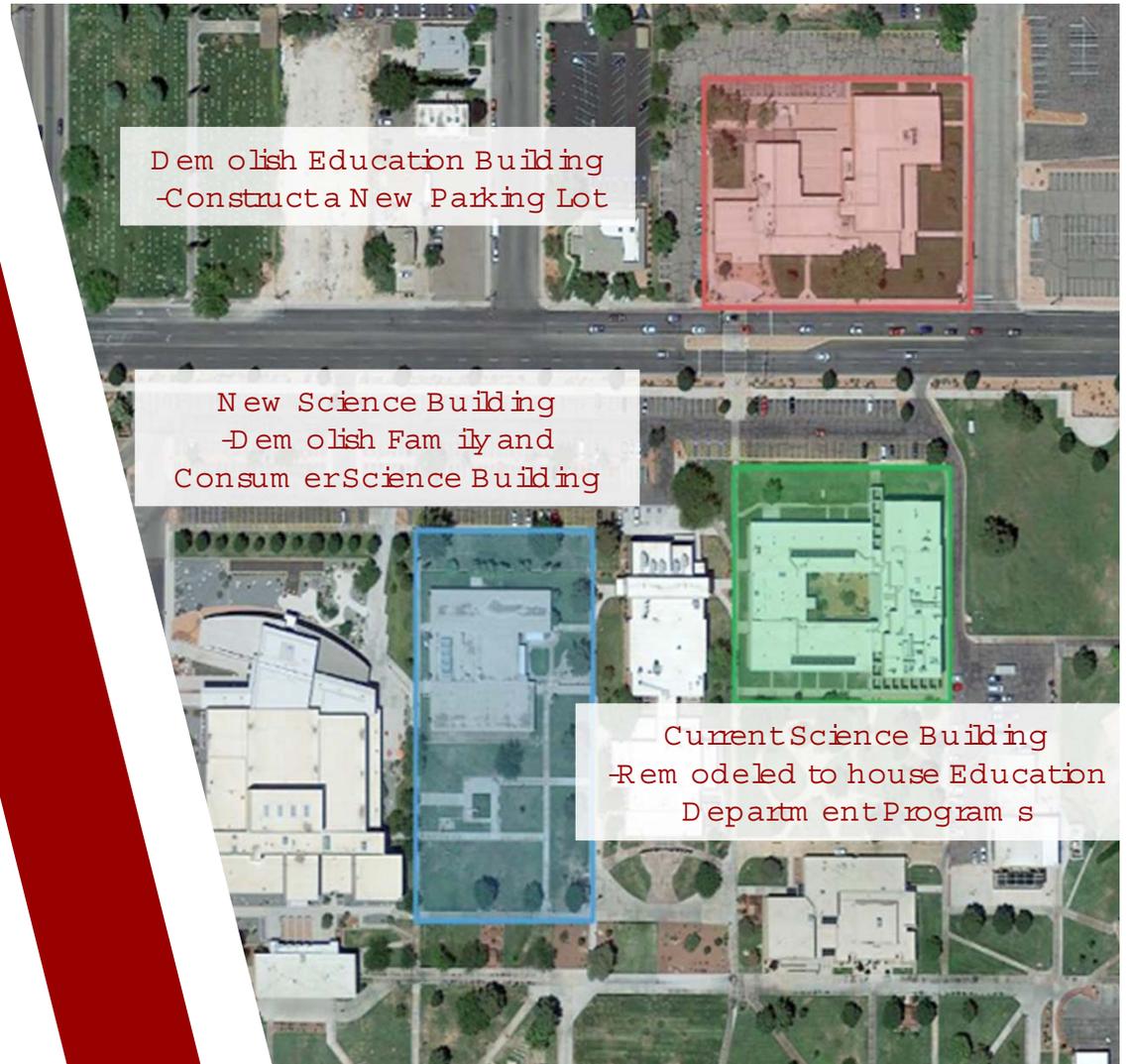
- Constructed in 1963
- Student Body of 355
- Inadequate and
Obsolete Laboratories
(46,402 sq .ft.)





Existing Science Building

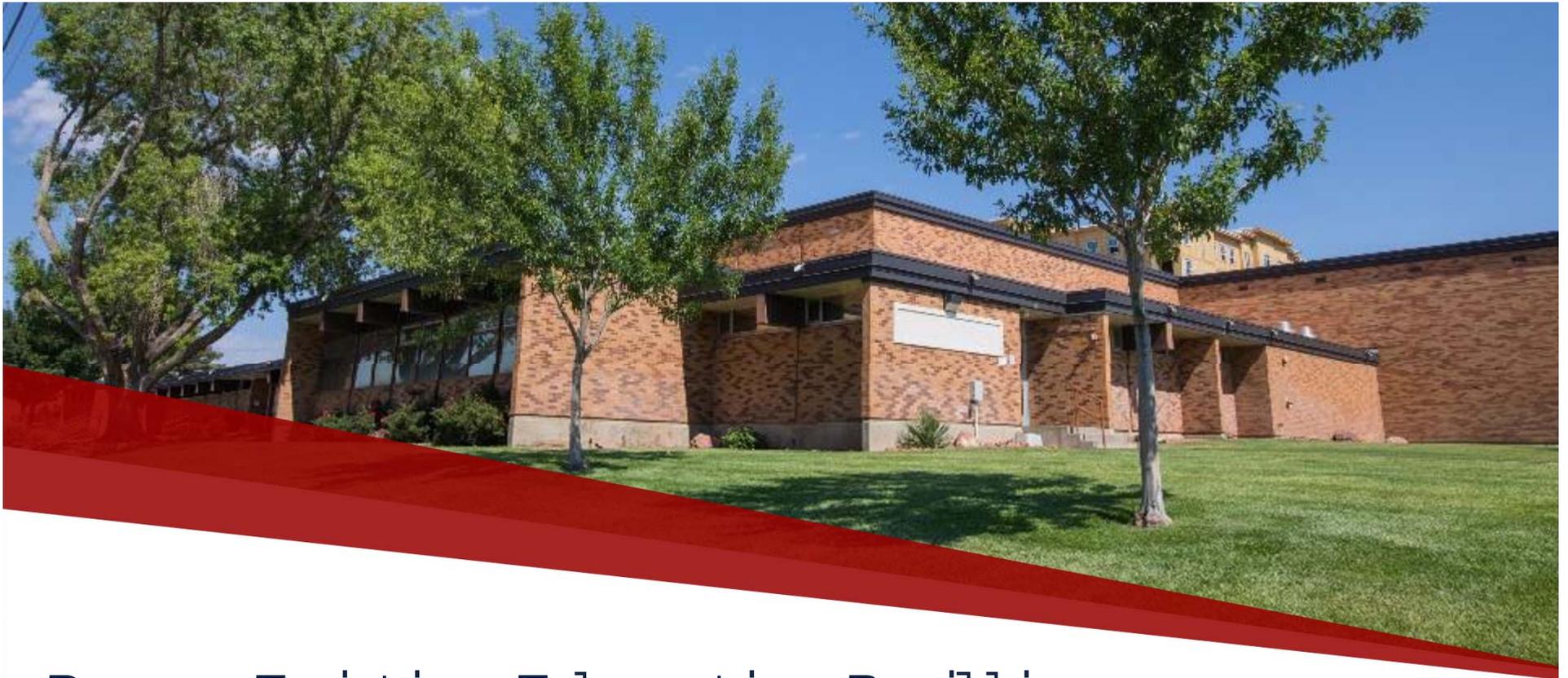
DSU's New Construction Sites





Dem o Existing Family and
Consumer Science Building

Built in 1963
18,352 sq. ft.

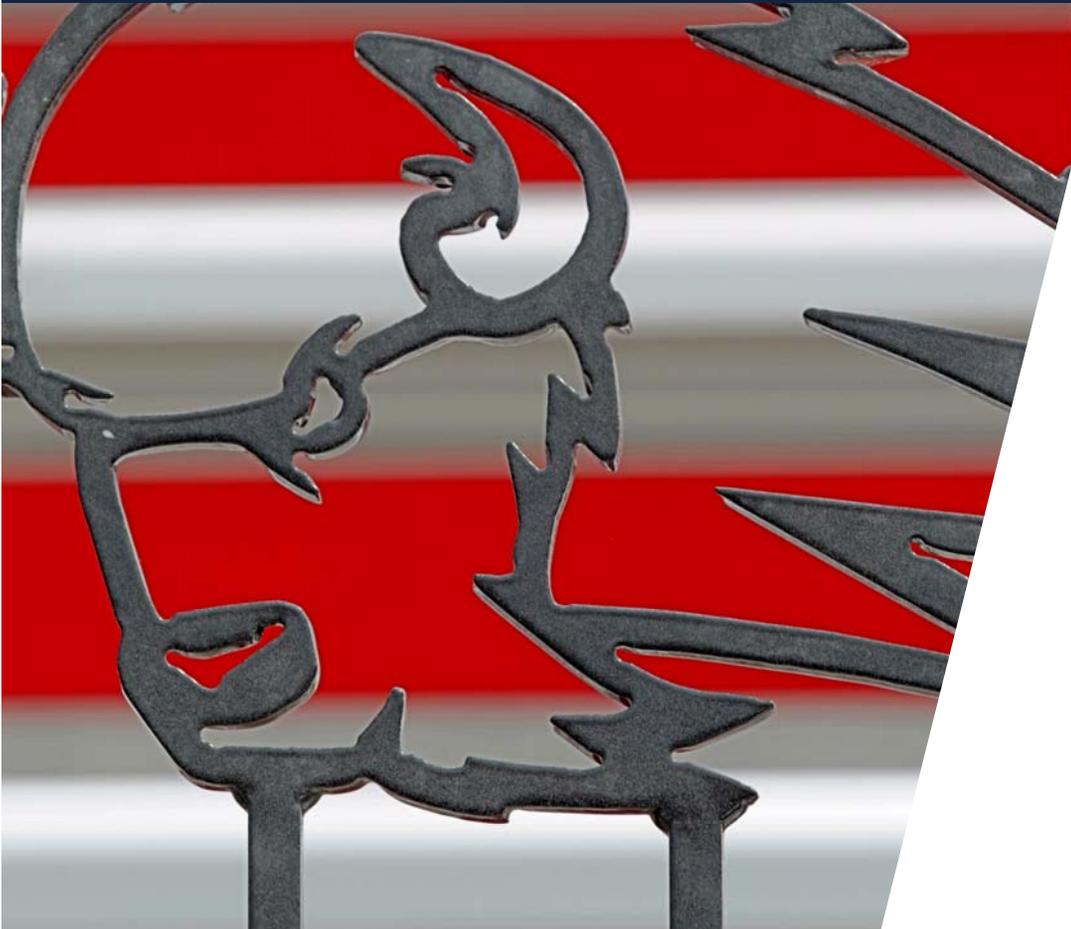


D e m o Existing Education Building
Site for Additional Surface Parking

Education Building



Capacity Summary



- Dem o Fam ily and Consum erScience (18,352 SQ .FT.)
- Construct New Science Building on Fam ily and Consum erScience Site
- M ove College of Education to existing Science Building
- Dem o Education Building (33,662 SQ .FT.)
- Replace Education Building w ith Parking

DSU™



Workforce

Annual Healthcare Job Openings in Southern Utah

	Openings from growth	Openings from replacement	Total
Washington County	370	180	550
Five County Region (incl. Washington Co.)	440	250	690
Iron, Kane, Beaver, Garfield (Excl. Washington County)	70	70	140

County growth

Workforce Shortages

*Data from Utah Department of Workforce Services

Tech Jobs Available

Computer Science Jobs	12,358
Design Jobs	4,384
Information Technology Jobs	6,240
Web Jobs	5,891
Total Tech Jobs	19,093

300 mile radius from St. George (Last 10 days)

Lab Hours

Mon-Fri: 8:00am-10:00pm

Saturday: 10:00am-8:00pm

Sunday: Closed

The lab will be closed on holidays when there are no classes.

Available Jobs

CS Jobs	12358
DES Jobs	4384
IT Jobs	6240
WEB Jobs	5891
Total Tech Jobs	19093

Popular Resources

[Submit Homework](#)

[Virtual Machine Farm](#)

[Lab Schedule](#)

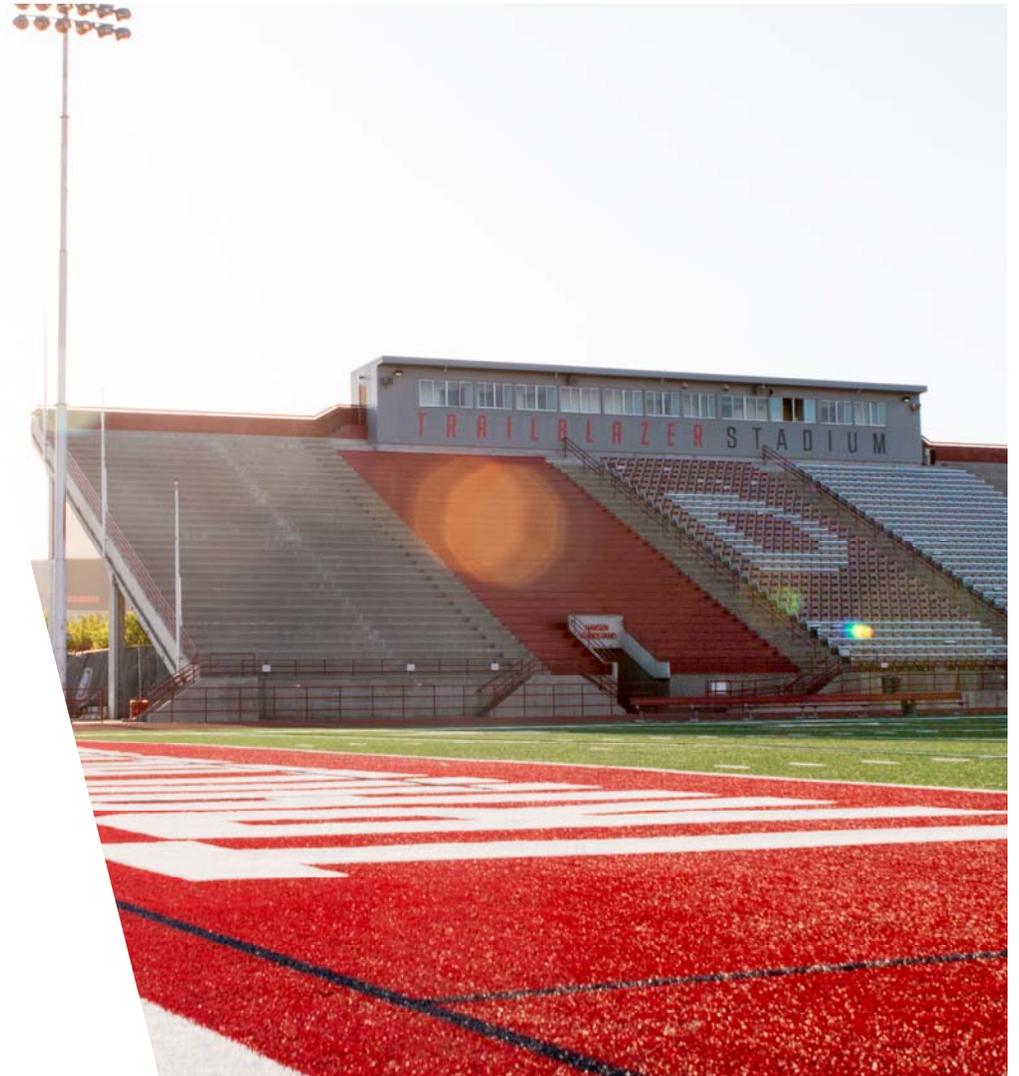
[Change CIT Account Password](#)

Tech Ridge Development



- U n i v e r s i t y G r o w t h
- C o u n t y G r o w t h
- W o r k f o r c e D e m a n d
- I n a d e q u a t e / O u t d a t e d
S p a c e
- E x h a u s t e d T e m p o r a r y
S p a c e s

O u r C a s e



USHE Capital Development Process 2018 General Session

	Project Name	Project Points					Final Score	
		Academic	Other Funds	Facility Condition	Institutional Priority	Total Score	Rank	
DSU		44.97	0	7	25	91	1	
WSU	Noorda Engineering		5	9	25	90	2	
UVU	Business School	21.22	47	3	0	25	83	3
SUU	Technology Engineering Design	16.83	45	0	0	25	82	4
SLCC	Herriman Campus General Ed.	7.39	41	4	0	25	82	5
UU	Interdisciplinary Physical Science	3.21	39	0	10	25	81	6
Snow	Social Science and General Ed	0.74	37	0	6	25	73	7
USU	Center for Languages & Cultures	1.01	37	0	3	25	69	8

Thank You



Questions

DSUTM