

John & Marcia Price Computing & Engineering Bldg.



Infrastructure & General Government Appropriations Subcommittee



Project Background

- *2021 Feasibility Study*
 - *Site Selected on Innovation Quad*
 - *Six Levels with Underground Parking*
- *2022 Legislative Funding*
 - *\$4.8M for Programming and Design*
- *Architects Selected: GSBS and LMN*
 - *Programming*
 - *Preliminary Design*
 - *Schematic Design Phase Starts Feb. 1*
- *Contractor Selected: Okland Construction*
 - *CMGC Project*





Preliminary Design





Preliminary Design



**JOHN & MARCIA PRICE
COMPUTING & ENGINEERING BUILDING**
UNIVERSITY OF UTAH



Workforce Alignment

- *Utah's Tech Sector*
 - *Fastest-growing in the country in 2020 **
 - *Highest growth rate in the next decade **
- *CS & Eng. 2020 Total Economic Contributions ***
 - *84,000 Utah Computer Science Jobs*
 - *\$25 billion in gross domestic product*
- *CS and Eng. jobs have grown at 3X other Utah jobs*



• *Cyberstates 2021 & 2022 Reports*

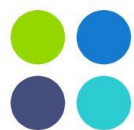
** *Kem C. Gardner Policy Institute, "Utah's Engineering and Computer Science Workforce," Sept. 2022.*



Employers



MOTOROLA



qualtrics

LOCKHEED MARTIN



workday



ZIONS BANK



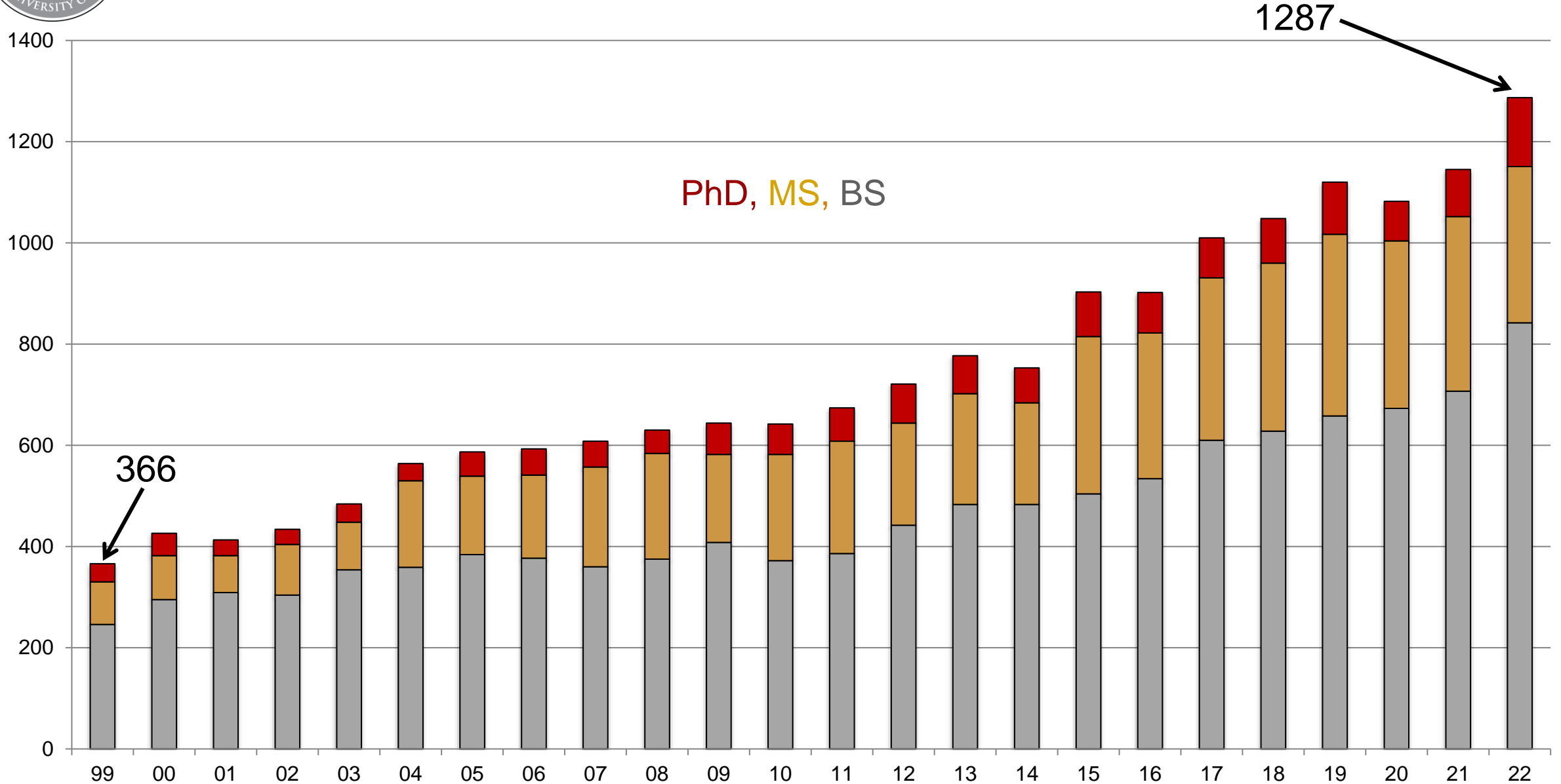


Utah Industry Support

<i>Abstrax Inc</i>	<i>Causality Link</i>	<i>Finicity, Mastercard</i>	<i>Northrop Grumman</i>	<i>syberjet</i>
<i>Adobe</i>	<i>Chevron</i>	<i>Galaxy</i>	<i>NVIDIA</i>	<i>Tetrad</i>
<i>Autoliv</i>	<i>Control 4</i>	<i>Gremlin</i>	<i>Okland</i>	<i>Texas Instruments</i>
<i>Avantor</i>	<i>Core Brace</i>	<i>Health Equity</i>	<i>Pando Ventures</i>	<i>Thermo King</i>
<i>BAE Systems</i>	<i>CRS</i>	<i>Horrocks</i>	<i>Pelion Venture Part.</i>	<i>Trask Brit</i>
<i>Berkadia</i>	<i>Degreed</i>	<i>Job Industrial Serv.</i>	<i>Powerschool</i>	<i>Tula Health Inc</i>
<i>BHB Engineers</i>	<i>Delicious AI</i>	<i>Kimley Horn</i>	<i>Progressive Lending</i>	<i>Union Wireless</i>
<i>Blackrock Micro</i>	<i>Divvy</i>	<i>L3Harris</i>	<i>Psomas</i>	<i>US Synthetic</i>
<i>BlockOps</i>	<i>Dominion</i>	<i>Layton Construction</i>	<i>Qualtrics</i>	<i>Vivint</i>
<i>Boeing</i>	<i>e-sens</i>	<i>Lightening Prot. Sys.</i>	<i>RLWadsworth Const.</i>	<i>wFluidx</i>
<i>Bright Path Labs</i>	<i>Entrata</i>	<i>Lucid</i>	<i>RapidSilicon</i>	<i>Whistic</i>
<i>BUKU</i>	<i>Enzy</i>	<i>Merit Medical Inc</i>	<i>Rocky Mnt. Power</i>	<i>Wright Engineers</i>
<i>Cao Group</i>	<i>Espira</i>	<i>Microsoft</i>	<i>Silicon Slopes</i>	<i>Zions Bankcorp</i>
<i>Carterra</i>	<i>FatPipe</i>	<i>Microsurgical Innov.</i>	<i>Stryker Neurovascular</i>	

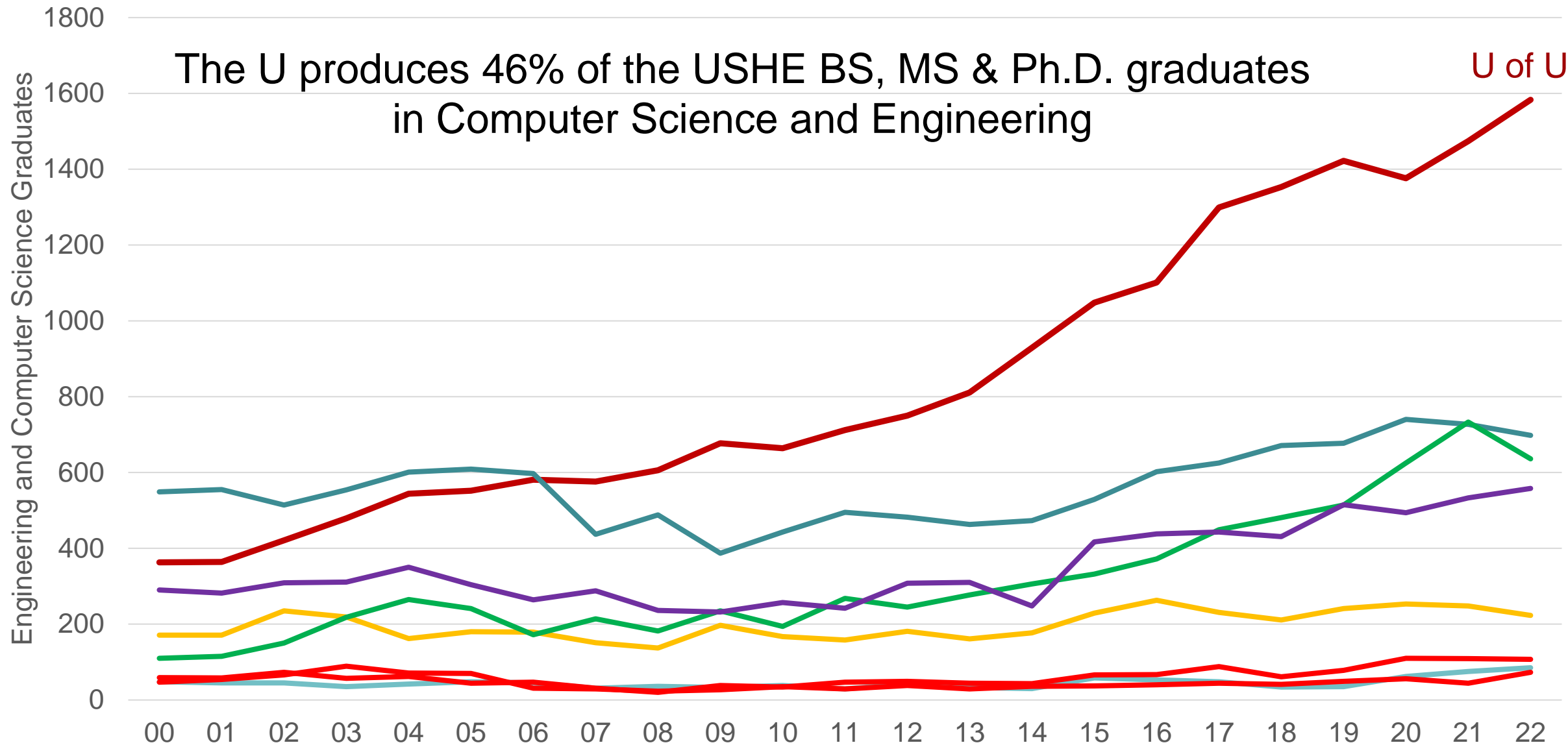


Engineering Degrees



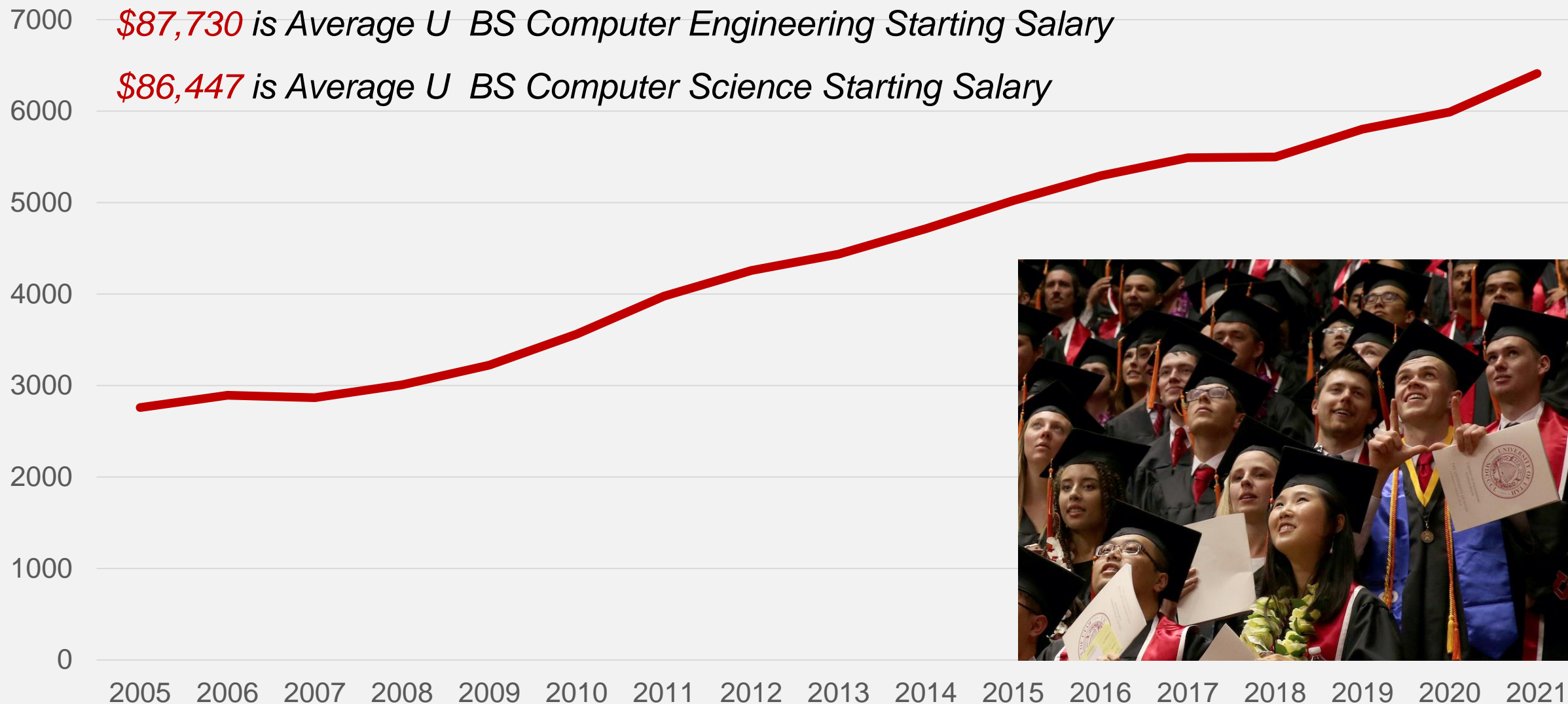


USHE Engineering & CS Graduates





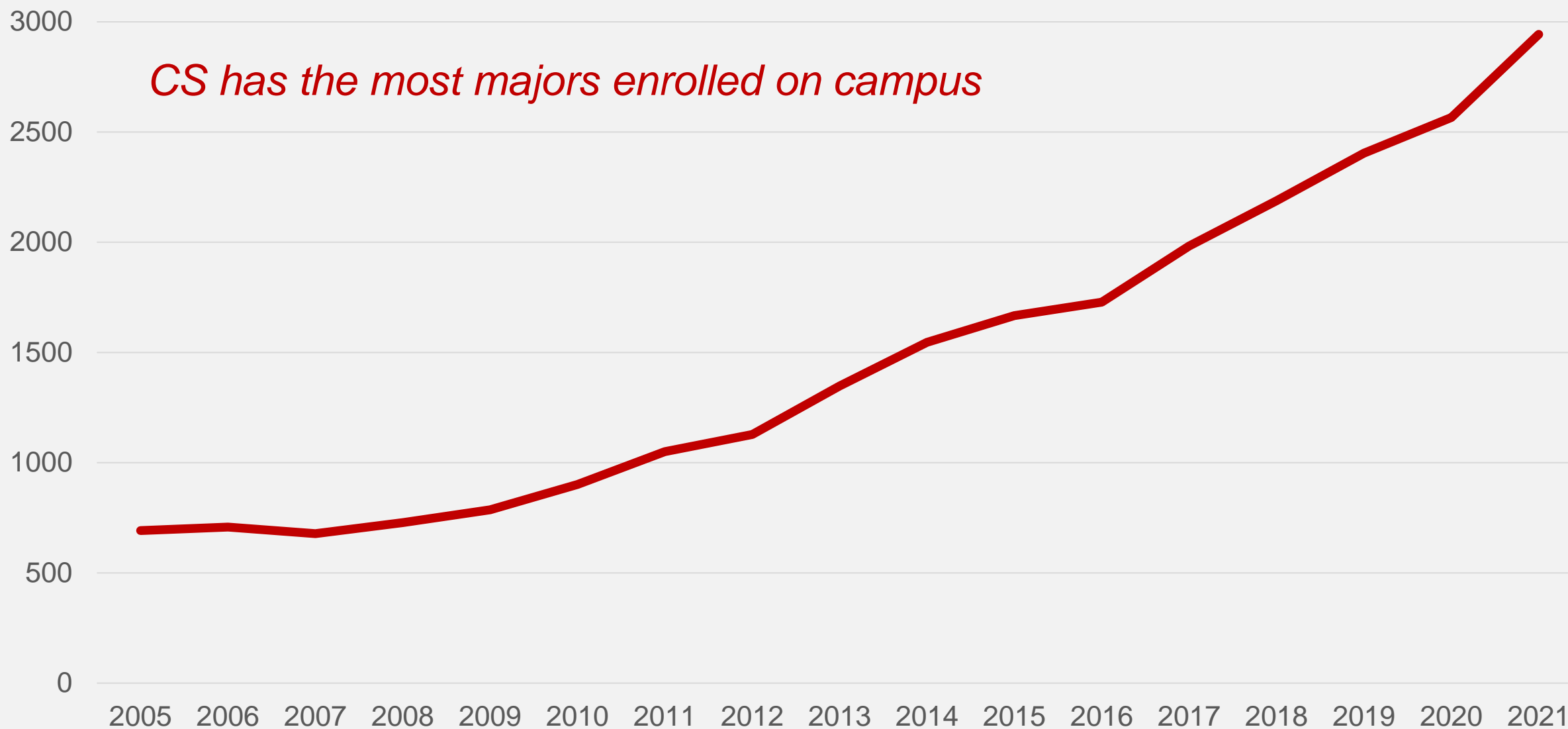
U of U College of Engineering Enrollment





U of U Computing Enrollment

CS has the most majors enrolled on campus





Capacity Exceeded

- *Introductory Programming Classes*
 - 2020 - **465** Students
 - 2021 - **696** Students
 - 2022 - **915** Students
- *Standing Room Only*
- *Single Projector*
- *Single Blackboard*
- *Poor Lighting*
- *No Group Work*

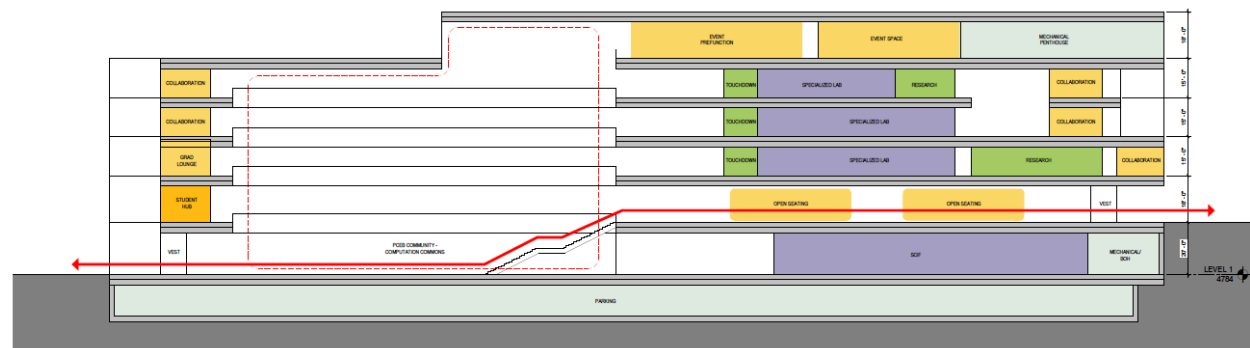




Large Classrooms & Classified Research



- *Classrooms to Serve Enrollment*
- *Secure Areas to Serve*
 - *Idaho National Labs*
 - *Air Force*
 - *National Security Agency*
 - *Northrup Grumman*
 - *L3Harris*
 - *Etc.*





Research Centers and Industry Condos

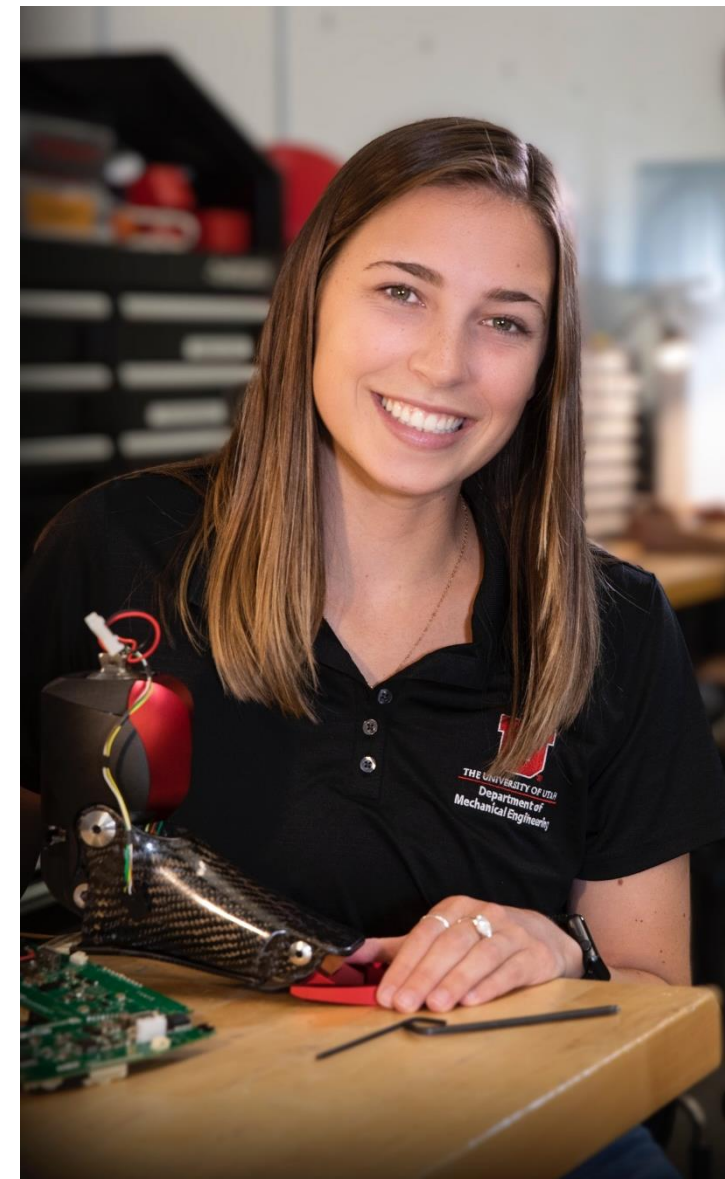


- *Industry and National Lab Partners*
- *Interdisciplinary Centers*
 - *Data Science*
 - *FinTech*
 - *Cybersecurity*
 - *Artificial Intelligence*



Cost-Effectiveness

- *3,000 students when it opens in 2025*
- *Price College of Engineering will grow graduates by 500/yr*
 - *Double the 2020 Computing Graduates at the U*
 - *Increase USHE Computing Graduates by 50%*
- *85.5% of Graduates take CS or Engineering Jobs in Utah*





Student Perspective on Cost-Effectiveness

- *4-yr Tuition costs 44% of First Year Salary*
- *100% Placement*
- *Summer Internships pay Well*
- *U of U has the Shortest time to Graduation*
- *U of U has the Lowest Student Debt*





Building Summary

- **308,502 GSF**
 - *Six Floors (additional 33,000 sq. ft.)*
 - *Secure Research Space (additional 10,000 sq. ft.)*
 - *140 Underground Parking Stalls*
- **Construction Cost Escalation**
 - *\$25.6M on Original Design*
- **Total Project Budget \$189M**
- **John and Marcia Price Family Foundation**
 - *\$15,000,000 Building Naming Commitment*
 - *\$ 2,500,000 Parking Structure Commitment*





Approval Request

Request Approval to construct the Price Computing and Engineering Building

- *Total Project Budget* \$189,342,000
- *SB102 Funds* \$ 40,342,000
 - 2022 (\$4.8M authorized for design)
 - 2023 (anticipated)
- *Requested State Funding* \$ 73,000,000
- *Requested Revenue Bond* \$ 76,000,000
 - Debt Repayment Sources:*
 - Donations
 - Federal Funds
 - Industry Rent
 - University Support
 - Parking Rebate & Revenues
- *Requested State O&M* \$ 2,302,300





Summary

- **Access**
 - *Give more Utah Students Access to High Tech Positions*
- **Degree Affordability**
 - *Lowest cost for a PAC-12 Computer Science and Engineering Education*
 - *Scholarships, including For-Utah Scholarship*
- **Degree Completion**
 - *Best numbers in USHE*
- **Workforce Alignment**
 - *Highest-demand Graduates*
- **Engineering Innovation**
 - *100+ Startup Companies from the Price College of Engineering since 2006*