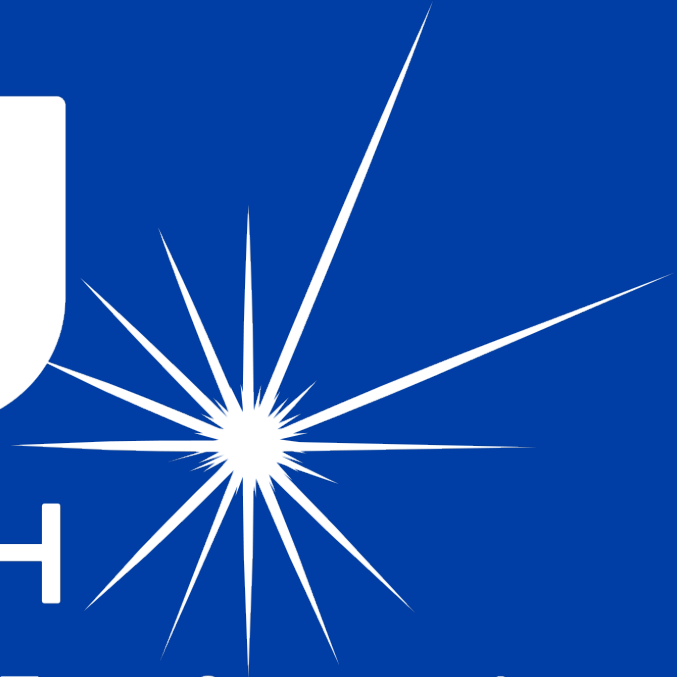


SLU

RESEARCH



Igniting Discovery, Transforming Lives

Science and Engineering
From Research Growth Plan to 2027 Vision



Science & Engineering at SLU

SCHOOL OF SCIENCE AND ENGINEERING

- Aerospace & Mechanical Engineering
- Aviation
- Biomedical Engineering
- Chemistry
- Civil, Computer & Electrical Engineering
- Computer Science
- Earth and Atmospheric Sciences
- Physics

COLLEGE OF ARTS AND SCIENCES

- Biology
- Bioinformatics & Computational Biology
- Data Science
- Forensic Science
- Mathematics and Statistics
- Neuroscience
- Psychology

Science & Engineering Research Council at SLU

- Jenna Gorlewicz, Ph.D, (Chair) Associate Dean for Research and Innovation (SSE), Associate Professor, Mechanical Engineering
- Stephen Belt, Ph.D., Associate Professor, Aviation Science
- Amanda Cox, Ph.D., Associate Professor, Civil Engineering
- Alexei Demchenko, Ph.D., Chair, Chemistry
- Maureen Donlin, Ph.D., Research Professor, Research Computing, Biochemistry and Molecular Biology
- Kasey Fowler-Finn, Ph.D., Associate Professor, Biology
- Haijun Gong, Ph.D., Associate Professor, Math
- Adriana Montano, Ph.D., Senior Associate Dean for Research, School of Medicine
- Zachary Phillips, Ph.D., Assistant Professor, Earth and Atmospheric Sciences
- Scott Sell, Ph.D., Associate Dean for Undergraduate Education (SSE), Biomedical Engineering
- Laurie Russell, Ph.D., Associate Dean for Student Success & Academic Innovation (CAS), Professor, Biology
- Abby Stylianou, Ph.D., Assistant Professor, Computer Science
- Jeremiah Weinstock, Ph.D., Chair, Psychology
- David Wisbey, Ph.D., Assistant Professor, Physics

Science & Engineering: 2016 – 2022 Milestones

- Reimagination of two new units: **COLLEGE OF ARTS AND SCIENCES & SCHOOL OF SCIENCE AND ENGINEERING**
- Formation of the Science and Engineering Research Council (**SERC**)
- 17 Science and Engineering **RI FELLOWS** Named in 2022
- Numerous **INDIVIDUAL PI AWARDS** (e.g. NSF CAREER, Google Scholar Award, Jefferson Science Fellow, and more!)
- Amplifying our **JESUIT MISSION** through our research & innovation initiatives



**NEW ROOTS FOR
RESTORATION**

WATER INSTITUTE
SAINT LOUIS UNIVERSITY



OPENSOURCE@SLU



Taylor Geospatial Institute

“We’re harnessing the power of partnership with industry, government agencies, and research entities to not only grow talent but develop core geospatial science and adjacent fields that enable positive impacts on some of the world’s greatest challenges.”



AREAS OF GEOSPATIAL IMPACT:

Core Geospatial Science

Food Systems

Geospatial Health

National Security

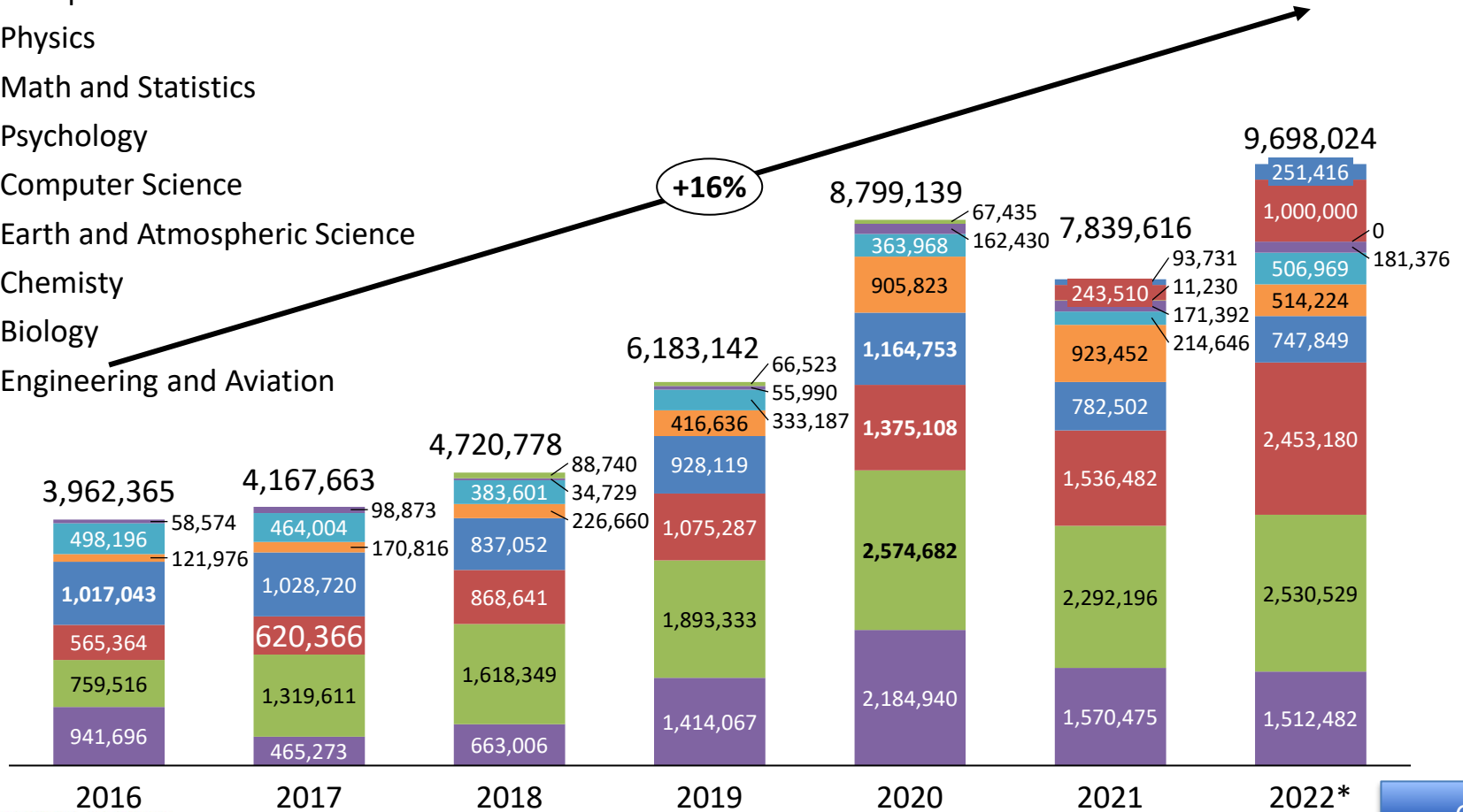


HARRIS-STOWE
STATE UNIVERSITY

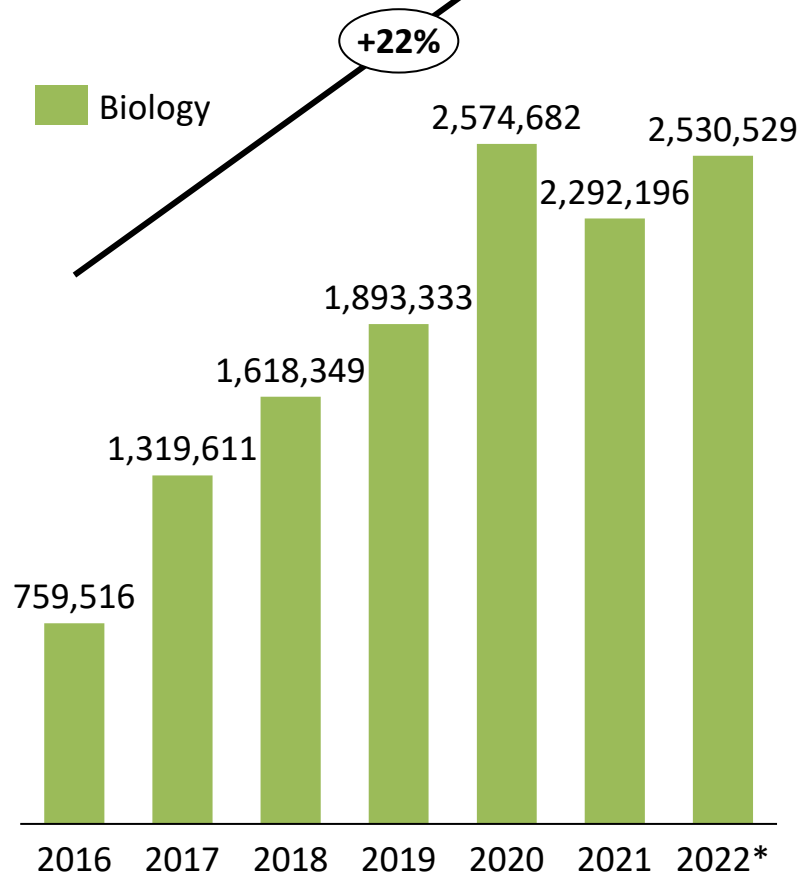
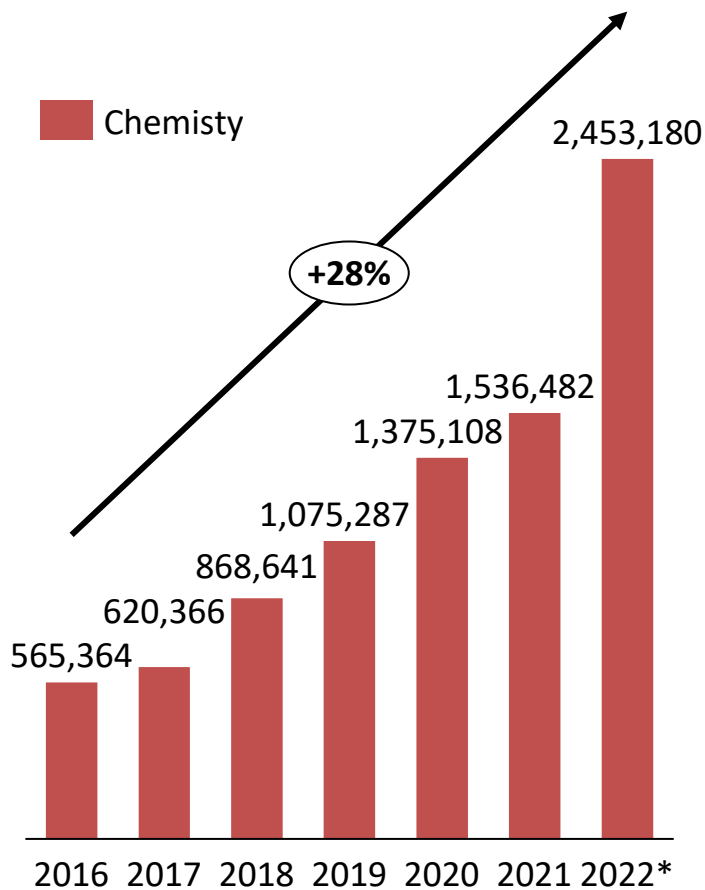


S&E RESEARCH EXPENDITURES, 2016-2022

- Water Institute
- Geospatial Institute
- Physics
- Math and Statistics
- Psychology
- Computer Science
- Earth and Atmospheric Science
- Chemistry
- Biology
- Engineering and Aviation



EXEMPLAR GROWTH AREAS: CHEMISTRY & BIOLOGY, 2016-2022



*FY22 Estimated

MOVING FROM PLAN TO VISION: CURRENT INITIATIVES

RESEARCH GROWTH

1. **SERC – Infrastructure, Faculty Support, Research Growth, PRF**
2. **Research Computing – University Priority**
3. **Faculty Hiring: 8 TT Searches (SSE); 6 TT Searches (CAS-Sciences)**
4. **Undergraduate Research Programs – SURGE & FIRE**
5. **Graduate Education – Recruiting, Training, and Retaining**

UNIT FOUNDATIONS

1. **Permanent Dean Searches Underway**
2. **Administrative Structures and Policy Implementation
- Space and Workload**

INNOVATION AND PARTNERSHIPS

Industry & Institute Partnerships

- Shaping Future **INTERDISCIPLINARY**, Education & Research
- Cultivating a **DIVERSE** Workforce
- Recruiting and Retaining **TOP TALENT**
- Innovating through **COLLABORATION**



Academic Partnerships

- Building **PATHWAYS** through the Sciences and Engineering
- Creating **IMPACTFUL** K-12 Outreach
- Establishing **EXPERIENTIAL** Opportunities for Students & Faculty
- Collaborating in a Research **SANDBOX** environment

HARRIS-STOWE
STATE UNIVERSITY



ADDITIONAL SCIENCE & ENGINEERING INITIATIVES

REGIONAL GEOSPATIAL INITIATIVES



CYBERSECURITY & INTELLIGENCE

The Global Center for Cybersecurity @Cortex



ADVANCED MANUFACTURING INNOVATION CENTER



R&D Co-Leads:

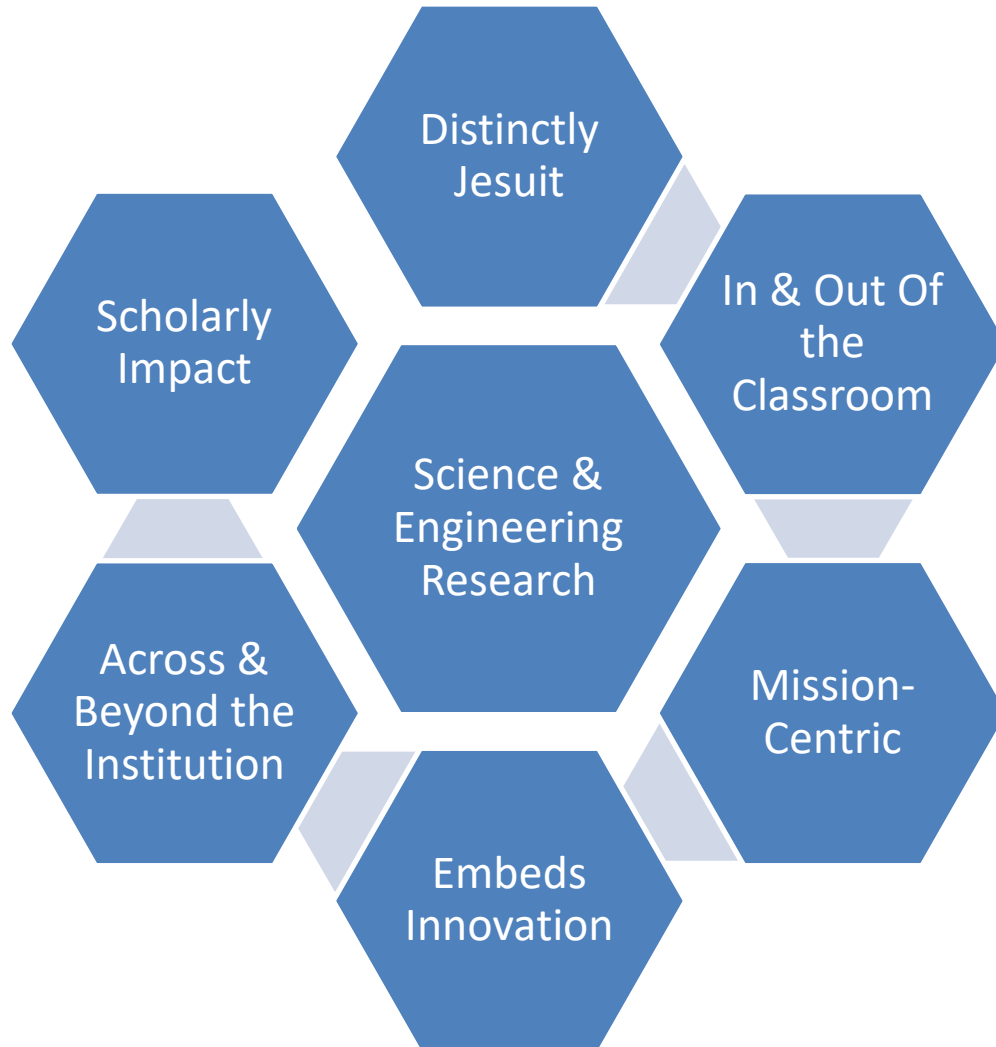


NEW ROOTS FOR RESTORATION



CROSS-DISCIPLINARY CONVERSATIONS

MOVING FROM PLAN TO VISION: WE NEED YOU!



Ways to Engage:

- 5 Year Strategic Planning
- Follow-on Conversations
- Provide Feedback
- Communicate through SERC representatives
- Faculty and Dean Search Processes

Questions?

Thank you!

