POSITION DESCRIPTION

FOR THE POSITION OF
INAUGURAL DEAN
SCHOOL OF SCIENCE AND ENGINEERING

NOVEMBER 2022

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POSITION DESCRIPTION

POSITION
Inaugural Dean, School of Science and Engineering

ORGANIZATION
Saint Louis University

REPORTS TO
Provost

LOCATION
St. Louis, Missouri

WEBSITE
slu.edu/science-and-engineering

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OVERVIEW OF THE OPPORTUNITY

Saint Louis University (SLU) seeks a visionary and inspiring leader to become inaugural Dean of the newly established School of Science and Engineering. The new school was formed in the reorganization of the College of Arts and Sciences and the Parks College of Engineering, Aviation and Technology in 2022. The resulting School of Science and Engineering (SSE) is a new academic entity designed to strengthen the University’s growth in STEM areas, to improve student opportunities and outcomes, and to foster a collaborative research environment consistent with both the University’s goal to become a Carnegie 1 research university within the next five years and the University’s Catholic Jesuit Mission.

Founded in 1818, SLU is the oldest university west of the Mississippi River and the second-oldest Jesuit university in the nation, SLU is a private urban research university offering undergraduate and graduate programs to over 13,000 students. In recent years, SLU has seen significant growth in its academic programs and campus life, and since the launch of the SLU Research Institute in 2018, the University has seen rapid growth in grant-funded and scholarly research, donor support, and student outcomes.

SLU is a major provider of talent to the St. Louis workforce and an anchor institution for a growing part of the city. SLU faculty and students address issues of racial justice, social justice, economic opportunity,
the social determinants of health, and child and adult education to the benefit of the local community, the city of St. Louis, the region, and the world. (For more information about SLU, see Appendix A.)

SLU is the lead institution in the establishment of the Taylor Geospatial Institute, an interdisciplinary community of preeminent scientists that draws on the distinctive strengths and state-of-the-art computing infrastructure of eight research institutions to launch innovative, cutting-edge research programs that make positive impact. The Institute’s mission is to advance geospatial science through multi-institutional, interdisciplinary collaborations to create innovative, real-world solutions to societal grand challenges. SSE’s dean, researchers, and students will have an incredible opportunity to develop the assets of the Taylor Geospatial Institute.

With many positive changes and considerable momentum, SSE seeks a dean who combines respected scholarship and academic achievements with strategic leadership ability, outstanding interpersonal and communication skills, collaborative and creative energy, entrepreneurial ambition, passion for the fields of science and engineering, and a vision for growth that will shape the future of SSE and its contributions to the region, the nation, and the world.

THE SCHOOL OF SCIENCE AND ENGINEERING

Saint Louis University formed SSE in July 2022, bringing together select departments from the College of Arts and Sciences with programs from the former Parks College of Engineering, Aviation and Technology. This reorganization grew out of a lengthy consultative process that began in October 2020 and included Task Force reports, dozens of listening sessions, extensive meetings with faculty and staff, and multiple proposals and feedback. The resulting structure was influenced by four guiding principles: (1) alignment with SLU’s Catholic, Jesuit educational mission; (2) improvement in student success; (3) growth in student enrollment and resources; and (4) support and enhancement of the University’s equity goals.

SSE comprises the departments of Chemistry, Computer Science, Earth and Atmospheric Science, and Physics, formerly part of the College of Arts and Sciences, and the departments of Aerospace and Mechanical Engineering, the Oliver L. Parks Department of Aviation Science, Biomedical Engineering, and Civil, Computer and Electrical Engineering, that were formerly part of the Parks College of Engineering, Aviation and Technology. SSE retains the Parks name in its Oliver L. Parks Department of Aviation Science.

Today, SSE’s mission is to prepare effective leaders in the science, engineering and aviation disciplines of the 21st century by providing industry-relevant academic programs featuring fully integrated technical, liberal and experiential education based in Catholic, Jesuit values.

SSE’s undergraduate engineering programs are accredited by the Engineering Accreditation Commission of ABET. Accreditation was reaffirmed in 2018-2019; the next accreditation review will occur in 2024-2025. The Bachelor of Science (B.S.) in chemistry degree is accredited by the American Chemical Society. The Bachelor of Science in aeronautics degree with concentrations in aviation management and flight science is accredited by the Aviation Accreditation Board International (AABI).
SSE’s eight departments are each led by a chair. They offer more than 45 majors and minor programs and 20 graduate degrees and certificates on the St. Louis campus. Science and engineering academic programs are also delivered on the University’s Madrid campus and coordinated with the Dean of SSE with respect to curricular assessment.

At the undergraduate level, the School offers Bachelor of Science degrees in aeronautics, aerospace and mechanical engineering, aerospace engineering, biochemistry, biomedical engineering, chemical biology and pharmacology, chemistry, civil engineering, computer engineering, computer science, data science, electrical engineering, environmental science, geoinformatics and geospatial analytics, mechanical engineering, meteorology, and physics; and Bachelor of Arts degrees in biochemistry, chemistry, computer science, and environmental studies. Other programs include a dual degree in chemistry and chemical engineering with Washington University; undergraduate minors in aerospace engineering, biomedical engineering, computer science, flight science, environmental science, mechanical engineering, meteorology, and physics; and a certificate in geographic information systems.

At the graduate level, SSE offers master’s degrees in artificial intelligence, aviation, bioinformatics and computational biology, chemical biology (MS and MA), chemistry (MS and MA), computer science, engineering, geoscience, geographic information science, meteorology, and software engineering. Doctoral degrees are offered in aviation, chemistry, computer science, engineering, geoscience, and meteorology; a doctoral program in physics is currently in the planning stage. There are also 16 accelerated bachelors to masters programs.

In Fall 2022, SSE enrolled 1,209 undergraduate and 518 graduate students. SSE employs 96 full-time faculty and 45 part-time faculty. Of these, 70 are tenured or tenure-track. SSE employs 50 full and part-time staff. The teaching load for faculty varies, ranging from 1/1 to 3/3 depending upon research and funding. Faculty and staff diversity is reflected in the following table:

<table>
<thead>
<tr>
<th>Race/Ethnicity for Full-time Faculty and Staff Percentages in the School of Science and Engineering as of October 1, 2022</th>
<th>Faculty</th>
<th>Post Doc Fellow</th>
<th>Staff</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian</td>
<td>11.5%</td>
<td>0.0%</td>
<td>4.9%</td>
<td>8.8%</td>
</tr>
<tr>
<td>Black or African American</td>
<td>1.1%</td>
<td>0.0%</td>
<td>7.3%</td>
<td>2.9%</td>
</tr>
<tr>
<td>Hispanic or Latino</td>
<td>1.1%</td>
<td>0.0%</td>
<td>4.9%</td>
<td>2.2%</td>
</tr>
<tr>
<td>International</td>
<td>10.3%</td>
<td>77.8%</td>
<td>0.0%</td>
<td>11.7%</td>
</tr>
<tr>
<td>Two or More Races</td>
<td>3.4%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>2.2%</td>
</tr>
<tr>
<td>White</td>
<td>72.4%</td>
<td>22.2%</td>
<td>52.9%</td>
<td>72.3%</td>
</tr>
<tr>
<td>Total</td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
</tr>
</tbody>
</table>
SLU is undergoing rapid growth in grant-funded and scholarly research, and to sustain this growth, the University is making investments in faculty hiring, research support and infrastructure, and new collaborative initiatives. The University is on track to achieve Carnegie 1 research classification in the next five years. The next dean of SSE will lead the school toward this goal.

SSE plays an essential role in the University’s research enterprise, with more than 40 active laboratories that bring together faculty and students to study issues related to ergonomics, robotics, and biomechanical engineering, and more. SSE departments, including chemistry and computer science, have seen substantial growth in grant funding and scholarly output. SSE faculty are also leading a number of university-wide initiatives identified and funded through the Research Institute’s Big Ideas competition, including The WATER Institute, the Center for Additive Manufacturing SLU-CAM, the Institute for Drug and Biotherapeutic Innovation (SLU-IDBI), and the People and Technology Horizon Initiative (PATH). A number of other interdisciplinary research centers, including the Earthquake Center, the Center for Environmental Sciences, the Center for Fluids at All Scale, the Center for Sensors and Sensor Systems, Quantum Weather, are also led, in part, by SSE faculty.

In 2022, SLU, together with seven other Midwest research institutions (The Donald Danforth Plant Science Center, Harris-Stowe State University, Missouri University of Science & Technology, University of Illinois at Urbana-Champaign, University of Missouri-Columbia, University of Missouri-St. Louis, and Washington University in St. Louis), launched the Taylor Geospatial Institute (described here). Funded by a legacy investment from Andrew C. Taylor, Executive Chairman of Enterprise Holdings, Inc. and Founding Chair of Greater St. Louis, Inc., the Institute is intended to help the St. Louis region become the world’s geospatial center in the next decade. The Institute will engage SSE faculty and students, and will leverage relationships with the National Geospatial-Intelligence Agency (NGA), whose Next NGA West campus is under construction a short distance from SLU.

The Taylor Geospatial Institute is just one example of SLU’s commitment to working with partners across the region, including those in St. Louis. SLU is a founding partner of the Cortex Innovation Community, located just one mile from SLU’s campus. Cortex connects the University with regional partners in industry, the local start-up community, and other universities across St. Louis. SLU supports its regional partners through talent generation, training the next generation of researchers, innovators, and leaders. Along with the University of Missouri—St. Louis, SLU is also a co-lead for research and development for the new St. Louis Regional Advanced Manufacturing Innovation Center.

For FY 2023, SSE generates about $41 million in revenue and has an annual operating budget of $21.4 million, generated by tuition allocation, foundation and research grants, and philanthropic support. Growth in research funding has been an important priority. In the last seven years, faculty in SSE have
had consistent growth in the number of proposals submitted. In FY 2022, research expenditures from external and internal sources totaled nearly $6.4 million, representing a 27% increase since 2017 (for details see chart in Appendix C.).

**ROLE SUMMARY**

Reporting to the Provost, the dean is the chief academic and executive officer of SSE and serves as a member of the University’s academic leadership team. The dean is responsible for the school’s leadership, strategy, and fundraising and for managing the faculty and staff, fiscal resources, and physical facilities of SSE. The dean is accountable for the quality of SSE’s academic programs, research, and faculty and exhibits leadership by building undergraduate and graduate programs of excellence on a foundation of innovative interdisciplinary education that supports all academic disciplines. The dean promotes and provides advocacy for SSE within the University and to regional, national, and international constituents and partners. The dean guarantees the integrity of all SSE’s programs, promotes quality and excellence in teaching, research, and service, and fosters an environment of openness and collegiality. The range of SSE’s academic offerings requires a dean who will be a strong advocate for the full array of the school’s disciplines and programs, employees and students, and who will craft an overarching vision that weaves these components into an integrated whole.

The dean collaborates with faculty in leading the School’s strategic planning efforts and sets the tone for the School in encouraging inclusive excellence, recognizing achievement, and supporting appointments and promotions based on merit. The dean has responsibility for promoting research and increasing external funding for faculty scholarship. This includes guiding SSE toward a research output consistent with a Carnegie 1 research university. The dean is also responsible for growing entrepreneurial activity, establishing international partnerships to support faculty and student needs, creating educational and experiential opportunities for students, fostering a collaborative spirit within the School, defining the School’s strategic priorities, and securing resources to fulfill those priorities. The dean ensures that all aspects of the academic program are coordinated with SSE programs in Madrid in terms of curricular assessment.

Reporting directly to the dean are department chairs of SSE’s eight departments. (For SSE’s organizational chart, see Appendix B.) The dean leads an SSE management structure of four associate deans for areas that include general administration and faculty issues, research and innovation, graduate education, and undergraduate education, and staff who manage business operations, development, marketing, and outreach. The dean leads the School’s Executive Committee, consisting of the chairs and other senior leadership. The dean also works on fund-raising initiatives with a development officer assigned to SSE by the University’s Office of Development and Alumni Relations. Within the University, the dean serves as a member of the Provost’s Council of Deans.

**Opportunities Ahead**

The new dean will assume leadership of a newly-created School that is positioned for growth. SSE offers an array of assets upon which to build:
❖ A mission-driven and caring faculty able to balance efforts in the areas of teaching, research, and service to best serve the interests of students;
❖ A new STEM-based organizational structure that promotes further interdisciplinary work and collaboration;
❖ A collaborative academic leadership environment with a cadre of collegial dean colleagues;
❖ The strength of the St. Louis region in terms of proximity to healthcare, life sciences and technology companies, and government facilities, particularly in relation to geospatial initiatives;
❖ A new state-of-the-art Interdisciplinary Science and Engineering building that houses teaching laboratories, the Water Institute, the Center for Additive Manufacturing, and other research facilities;
❖ The unique legacy of a historically prominent program in aviation sciences that was the first federally approved School of Aeronautics;
❖ A university on a growth trajectory with strong leadership and an ambitious agenda to become an R1 institution within the next several years; and
❖ SLU’s strong Catholic Jesuit mission and commitment to teaching and research excellence, pursuit of truth, social justice, and the education of the whole student with a focus on professional formation of leaders for a just and humane world.

Within this context, the new dean will have the opportunity to:

▲ **Position SSE to thrive in its new configuration**

Through 2022-23, under the leadership of an interim dean, SSE is developing policies, procedures, guidelines, and practices that will lay the foundation for the new School moving forward. This work will continue under the new dean, who will need to establish an appropriate administrative infrastructure to support the School’s faculty and students. To meet this challenge, the new dean will be a creative, visionary leader who will engage SSE’s faculty, staff and students in defining a vision and strategy to strengthen SSE’s identity and programs.

SSE faculty, staff, and students want a dean who is an open communicator, able to articulate and communicate a vision and a rationale in planning and decision-making, willing to be transparent with all stakeholders about the challenges and opportunities facing the School, and responsive to concerns and feedback.

▲ **Promote academic excellence and growth**

The challenge for a new dean will be to craft a collaborative vision that integrates the various parts into a coherent whole with a strong focus on interdisciplinary work. SLU seeks a dean who will exercise strategic leadership to forge and actualize this exciting vision for the school, in alignment with the University’s strategic goals and aspirations for the future. The dean will be an agent for growth and improvement of existing programs as well as creation of new programs, with a focus on growing graduate education, including recruitment of international graduate students. The dean will be an intellectual catalyst and an inspiring leader who will galvanize SSE to utilize its strengths to enhance the impact of science and engineering, including furthering research and doctoral student training that will enhance SSE’s contribution to SLU’s goal of becoming an R1 institution.
Support and grow high quality research in support of SLU’s aspirations

One of the goals in the establishment of SSE is to provide support and greater opportunities for STEM-related research to grow. The new dean and faculty will be expected to promote R1-level research with an increased commitment to extramural funding, publication in high-quality journals, and growth in other research metrics, such as increased rates of doctoral graduates. To achieve this, the dean must assess faculty workload to align with the University’s research aspirations and must work with faculty to increase:

- Research collaborations;
- Focused development of faculty research agendas;
- Publication in high-quality and peer-reviewed journals;
- External funding for research;
- Doctoral production;
- Postdoctoral fellowships and research staff.

The dean will have the opportunity to participate in the development and growth of the Taylor Geospatial Institute, many of whose new faculty will hold appointments in SSE.

Manage and secure resources to advance SSE

The dean must possess strong financial and strategic management skills and the ability to provide entrepreneurial leadership for SSE. The dean must be financially astute, comfortable with complex budgets, and experienced in data-driven, metrics-based operational environments. The dean will need to develop entrepreneurial initiatives and new revenue streams, and work with faculty colleagues and the University to find innovative ways to support enrollment growth, especially in revenue-producing masters’ programs, as well as funding support for doctoral students.

The dean will provide leadership to fundraising efforts to grow philanthropic support for SSE and advance its mission and visibility to alumni, funding agencies, foundations, community leaders, and industrial partners. Among the priorities are the need for additional research space for science and engineering programs and upgraded equipment for academic programs such as aviation sciences. The dean will need to serve as a compelling advocate and spokesperson for the school, building its brand regionally, nationally, and internationally.

The dean will have the opportunity to reconstitute the Dean’s Advisory Board to support the school and to advise on academic programs and initiatives.

Promote student success

Another goal of the new configuration of SSE is to provide more focused attention on those STEM-related courses where high percentages of students have the greatest challenges. A particular focus of the new dean will be to improve student outcomes in these challenging gateway courses. More broadly, the dean will be expected to provide leadership to efforts to increase experiential opportunities for students – in student research as well as in internships, co-ops, externships, capstone projects, and
student placements. Improving retention and four-year and six-year graduation rates is an important University priority.

△ **Foster a diverse, inclusive, and supportive community and culture**

Promoting greater diversity is an important goal for SSE. Current faculty and students are heavily Caucasian, despite the University’s location in a diverse city and region. The school has an increasing population of first-generation students, but historically, many science and engineering fields have not attracted students of color. The new dean will need to be creative in exploring collaborations with diverse institutions and organizations, developing programs to reach under-represented students, and developing pathways to bring in underrepresented students while also ensuring that SSE remains an inclusive, welcoming, and supportive environment for all its members.

△ **Promote a culture of collaboration, innovation, and entrepreneurship**

The new dean must be a collaborative leader, partnering with other deans, faculty, staff, and the Provost to enhance the School’s interdisciplinary culture. SLU seeks a dean who broadly understands and appreciates the opportunity to leverage the strengths of the University to build a stronger program, who champions collaboration and builds links to and across departments as well as across schools within the University, and who leverages interdisciplinary opportunities to create programs of distinction.

To achieve this, the dean must:

- Create and implement new initiatives and to build stronger relationships with other programs, schools, and colleges across the University;
- Engage with alumni and interested stakeholders and partners to leverage their expertise and commitment;
- Continue the creation of new graduate/professional and upskilling programs utilizing new technologies; and
- Identify ways to leverage the University’s growing research strengths in the areas of geospatial science, water and sustainability, and to benefit SSE’s faculty and students.

Addressing these challenges will require a dean with broad intellectual interests, passion and energy, strong external relations and fundraising skills, creativity, entrepreneurial instincts, an open-minded approach, and the ability to form collaborative partnerships within and beyond SSE in order to help SSE fully realize its potential.

**CANDIDATE PROFILE**

The university seeks a candidate with exceptional leadership skills and vision to lead the School of Science and Engineering and to build its academic and research enterprise. The dean will demonstrate a broad understanding of the future of science and engineering while articulating a collective vision for a newly established school. The dean will have exemplary academic achievements, together with strategic leadership ability; outstanding interpersonal and communication skills; entrepreneurial spirit and high energy; and a passion for the unique mission of SSE. The dean will be a collaborator and a convener,
able to work effectively with a broad range of constituents, including senior leadership, faculty, students, staff, alumni, donors, and external partners. The dean will serve as a role model in team building and establishing open communication and collaboration with faculty and staff.

The successful candidate will most likely come from a background of substantive leadership within higher education, although outstanding academically qualified candidates from public or private sector research environments will be considered. Candidates must demonstrate evidence of excellent financial and management skills, the ability to make difficult choices, to understand competing priorities, and to make decisions under constraints; and collaborative skills in working with fellow deans, department heads, and an innovative energetic faculty and staff. The dean will demonstrate a track record of commitment to student and faculty success, to diversity, to strong engagement with diverse constituents, to building diverse leadership teams, and to securing resources to support the School. Above all, the dean must be an advocate for SSE and demonstrate a deep resonance with the University’s Catholic, Jesuit charism, mission, values and commitment to service.

The following qualifications and experience are essential:

▲ An earned doctorate from an accredited institution or equivalent experience, and academic qualifications that merit appointment as a tenured full professor in an academic discipline represented within SSE;

▲ A strong record of distinguished leadership. In higher education, this would include successful leadership at the dean, chair, director, or equivalent leadership level that involves leading an executive team; hiring and supporting faculty and staff; supporting research; and building programs in undergraduate education, graduate and doctoral education; and online education;

▲ Enthusiasm for operating within a Catholic, Jesuit environment; commitment to the values that underpin SLU’s Jesuit identity;

▲ Demonstrated commitment to diversity among faculty, staff, and students along with an understanding of how to advance a culture that promotes inclusion and welcomes and encourages dialogue across lines of difference; the ability to lead a school that sits within a racially, culturally, and economically diverse urban environment;

▲ Commitment to research as the foundation for learning, teaching, and practical application; a vision for the important role of SSE within a research-intensive university; experience with strategies to increase substantial research funding; familiarity with funding priorities for science and engineering research; and understanding of how to support faculty in their research efforts. A proven track record securing federal research support as a funded investigator is highly desirable;

▲ Demonstrated experience as an intellectual leader with the breadth of vision necessary to represent all areas of SSE, develop a shared vision for the future, build programs of excellence within the school, and make the whole greater than the sum of its parts;
Demonstrated expertise in strategic planning, fiscal management, resource allocation, and program evaluation; and experience in aligning academic and budgetary priorities and allocating facilities, resources, and budgets to meet current and future program needs;

Enthusiasm and ability to contribute actively to substantial development and fundraising efforts; to elevating SSE’s profile within the national and international science and engineering community; and to growing relationships with industry partners. A proven track record of successful fundraising is highly desirable;

Demonstrated ability to create and nurture an environment that values faculty and staff contributions, recognizes excellence, supports faculty and staff development, encourages innovation, and promotes a positive atmosphere of achievement and service for students, faculty, staff, and alumni;

Personal and professional integrity; strength of character, a strong sense of stewardship, and ethical qualities of the highest order.

While no one candidate will likely possess them all, the successful candidate will bring a blend of many of the following competencies and personal qualities:

Ability to set priorities and make and explain tough decisions; strong problem-solving skills; ability to collaborate with, connect, and convene multiple stakeholders;

Exceptional collegiality as reflected in a commitment to an environment of shared governance, consultation, and participatory decision-making;

Openness and receptivity to international education and an interest in leveraging the opportunities afforded by SLU’s program in Madrid to ensure that SSE graduates will be integrated into an increasingly globalized world;

Exceptional communication ability that includes listening skills and a passion for articulating the vision and mission of the School and raising its visibility, an open and transparent approach to communications, and the humility to admit mistakes;

A high degree of energy, optimism, self-awareness, and flexibility; ability to instill confidence; and excitement about the possibilities for the School of Science and Engineering and its continued growth.

Saint Louis University is an affirmative action and equal opportunity employer committed to providing fair treatment of all in the SLU community on the basis of merit.
Screening will begin in November and continue until an appointment is made; start date will be negotiable. Nominations, inquiries, and applications (including CV; cover letter addressing interest, leadership philosophy, and commitment to diversity; and the names of five references) should be directed electronically to SLUDeanSSE@divsearch.com.

**DIVERSIFED SEARCH GROUP CONTACTS**

**Kim M. Morrisson, Ph.D.**  
Managing Director  
215 656-3546  
Kim.morrisson@divsearch.com

**Andrew C. Wheeler**  
Managing Director  
267 257-1910  
Andrew.wheeler@divsearch.com

**Christine Falcone**  
Senior Search Associate  
(484) 288-0295  
Christine.falcone@divsearch.com
APPENDIX A: SAINT LOUIS UNIVERSITY: INSTITUTIONAL OVERVIEW

**History and Location**

Founded in 1818, Saint Louis University (SLU) is the oldest university west of the Mississippi River and the second-oldest Jesuit university in the nation. A private urban research university, SLU offers academic programs on four sites in St. Louis, Missouri and overseas on a campus in Madrid, Spain. Steeped in a 500-year Ignatian tradition of spirituality, pedagogy, and intellectual inquiry, SLU values academic excellence, life-changing research, compassionate healthcare, and a strong commitment to faith and service. SLU faculty and students work on issues of racial justice, social justice, economic opportunity, the social determinants of health, and child and adult education to the benefit of the local community, the city of St. Louis, and the region.

Geographically, SLU’s north campus in midtown St. Louis is home to academic programs in the arts, humanities, social and natural sciences, engineering, and the main core of the University Administration. SLU’s south campus houses academic programs in the health sciences, the School of Medicine, and the university hospital. The School of Law is located in downtown St. Louis, close to the city’s legal
infrastructure. SLU’s Center for Aviation Science lies across the Mississippi river at the St. Louis Downtown Airport in Cahokia, IL. SLU’s St. Louis sites are linked by shuttle transportation. SLU’s campus in Madrid, which opened in 1967, offers complete US degree programs, including programs in science and engineering, to nearly 1,000 students from 50 countries.

**Students and Academic Programs**

SLU enrolls over 13,000 undergraduate, graduate, and professional students annually, and offers nearly 100 undergraduate programs and over 70 graduate programs. SLU’s academic programs are offered through 12 colleges and schools, and the Madrid campus. Colleges and schools include the College of Arts and Sciences, College of Philosophy and Letters, College for Public Health and Social Justice, Doisy College of Health Sciences, Richard A. Chaifetz School of Business, School of Education, School of Law, School of Medicine, School for Professional Studies, School of Social Work, School of Science and Engineering, and Trudy Busch Valentine School of Nursing. In addition, SLU offers degrees through the Center for Advanced Dental Education and Center for Outcomes Research.

SLU Madrid offers 16 fully accredited undergraduate and two graduate degrees that can be completed entirely in Madrid, Spain. Students can also choose from among more than 40 degree programs to start at SLU Madrid and finish in the U.S. at SLU’s campus in St. Louis. SLU employs 2,300 faculty and a total of 7,000 employees. SLU has more than 131,000 living alumni.

SLU is consistently ranked among the nation’s top Jesuit universities and recognized for its efforts to serve others and its commitment to making an extraordinary education attainable. Twelve of SLU’s graduate and undergraduate programs are ranked among the top 50 in the country by *US News & World Report*, and SLU ranks #57 in *US News & World Report*’s list of Best Value Institutions. SLU is one of only nine Catholic universities to receive a Carnegie classification of “higher” or “highest” research activity. The University has also been recognized as a leader in community service, ranking third in the nation according to *The Princeton Review*. SLU was selected as a “Top Place to Work for Women” in 2020 by the Women’s Foundation of Greater St. Louis.

During the COVID pandemic, SLU’s actions have been guided by the University’s strategic objectives, Jesuit values, data and consensus science, and the expectations of students and their families, faculty and staff. The University publishes a dashboard, updated weekly, of all publicly available COVID information. In Fall 2022, SLU’s approach to managing COVID-19 seeks to minimize disruptions to everyday lives while taking the necessary steps to suppress widespread outbreaks on campus, reduce the risk of severe disease, and protect vulnerable members of the community.
Mission

The mission of Saint Louis University is the pursuit of truth for the greater glory of God and for the service of humanity.

The University seeks excellence in the fulfillment of its corporate purposes of teaching, research, health care and service to the community. It is dedicated to leadership in the continuing quest for understanding of God's creation and for the discovery, dissemination and integration of the values, knowledge and skills required to transform society in the spirit of the Gospels. As a Catholic, Jesuit university, this pursuit is motivated by the inspiration and values of the Judeo-Christian tradition and is guided by the spiritual and intellectual ideals of the Society of Jesus.

In support of its mission, the University:

- Encourages and supports innovative scholarship and effective teaching in all fields of the arts; the humanities; the health and medical sciences; the social sciences; the law; business; science and engineering; aviation; and technology;
- Creates an academic environment that values and promotes free, active and original intellectual inquiry among its faculty and students;
- Fosters programs that link University resources to local, national and international communities in collaborative efforts to alleviate ignorance, poverty, injustice and hunger; extend compassionate care to the ill and needy; and maintain and improve the quality of life for all persons;
- Strives continuously to seek means to build upon its Catholic, Jesuit identity and to promote activities that apply its intellectual and ethical heritage to work for the good of society as a whole;
- Welcomes students, faculty and staff from all racial, ethnic and religious backgrounds and beliefs and creates a sense of community that facilitates their development as men and women for others;
- Nurtures within its community an understanding of and commitment to the promotion of faith and justice in the spirit of the Gospels; and
- Wisely allocates its resources to maintain efficiency and effectiveness in attaining its mission and goals.

Diversity

SLU is committed to diversity as a value rooted in Ignatian spirituality. This commitment finds expression in the work of SLU’s students, faculty, and staff to fight the injustices of poverty, racism, and segregation and to build communities that are unburdened by discrimination and oppression while advancing Ignatian concepts of educating the whole individual as people for and with others. SLU is proud of its history as the first historically white institution in a former slave state to formally admit African American students. SLU’s School of Law was also the first ABA-recognized law school in St. Louis to accept African American students.
SLU is also proud that Dr. Martin Luther King Jr. delivered a civil rights speech on campus one week before he was awarded the Nobel Peace Prize. In more recent history, student and community activists held a week-long occupation of campus to protest racial injustices locally and nationally as part of the 2014 Ferguson protests. At SLU, the protests ended peacefully with the Clock Tower Accords, a 13-point agreement that aligns with SLU’s mission and will further its goal to become a national model for diversity and community engagement.

Research

SLU’s mission – grounded in the pursuit of truth—calls for the University to both grow and advance the impact of its academic research enterprise. SLU is classified as a Research University/High Research Activity institution by the Carnegie Foundation. In 2018, SLU received an historic $50 million gift from Dr. Jeanne and Mr. Rex Sinquefield, the largest single gift in the University’s history. With this extraordinary gift, the University created the SLU Research Institute, setting SLU on a path to becoming a world-class research university, one whose ambitions and motivations are uniquely informed by its Jesuit values and mission. In pursuit of its goal of becoming an Research I institution, SLU aims to double its funded research activity from $50 to $100 million over the next five years.

SLU’s research strength includes work in basic and translational biomedical discovery, public health and social justice, health care law and ethics, engineering, philosophy, environmental sustainability, theology, and areas of the humanities such as digital humanities. SLU is involved in a number of exciting new initiatives, including the launch of the Taylor Geospatial Institute in 2019 led by researchers in Public Health, Sociology, and Earth and Atmospheric Sciences and fueled by the recent legacy investment of Andrew Taylor; the completion of the $50 million state-of-the-art Interdisciplinary Science and Engineering Building; the opening of a $550 million university hospital and outpatient care center that includes SLU’s Center for Vaccine Development, one of ten NIH-funded Vaccine Treatment and Evaluation units; and the collaborative development of the Cortex Innovation District, a 200-acre hub for technology startups and biological science research development and commercialization in partnership with Washington University in St. Louis, BJC Healthcare, the University of Missouri-St. Louis, and the Missouri Botanical Garden. The Cortex Innovation District is now considered among the top five Innovation Districts in the country.

Reflecting its Jesuit mission to educate the whole person, the University offers its students many educational opportunities in addition to classroom instruction. There are a wide array of clubs, organizations, academic societies, and social fraternities and sororities. The University is very supportive of the religious life of students of all religious backgrounds and traditions. Saint Francis Xavier College Church enjoys a vibrant worship life, and the Department of Campus Ministry offers a wide range of opportunities for service and spiritual growth. The University’s Center for Global Citizenship provides students with a wide variety of opportunities to increase their global awareness and make meaningful connections with those from other countries. The University also supports a NCAA Division I athletic program that competes in the Atlantic 10 Conference.

SLU has an annual operating budget of more than $1 billion and an endowment currently valued at $1.5 billion. Through careful stewardship of resources and sound fiscal management, the University has been able to fund new academic initiatives and grow and enhance facilities. SLU launched a new capital campaign in 2018, in time for its 200th anniversary.
SLU is a major catalyst for urban renewal in the heart of a remarkable city. Since its founding, the University has had strong ties with the city for which it is named. In the early 1960s, when St. Louis, like most major American cities, began to show the signs of urban decline, the University made the deliberate decision to remain in the city and expand its presence and facilities. This expansion has continued and has been a major source of revitalization for the city. As a result, the Midtown area has enjoyed a period of renewal and become known for the quality of its restaurants, cultural activities and improved housing options. The University has funded more than $850 million in campus improvements and expansions during the past 25 years. Its annual economic impact on the region exceeds $715 million.

The Vibrancy of St. Louis

The St. Louis metropolitan area has a population of approximately 3 million people. The city is home to 11 institutions of post-secondary education, including several post-baccalaureate universities. St. Louis also offers a rich array of cultural and athletic activities, including museums, historical sites, a symphony orchestra, art and theater venues, professional sports teams, and their attractions.

St. Louis also hosts an increasingly diverse and influential cohort of business, industrial and health care organizations reliant on cutting edge data science. St. Louis is home to nine Fortune 500 companies, including Bayer, Enterprise, Anheuser-Busch, Express Scripts, Emerson Electric, and Edward Jones and is the site of the headquarters of the former McDonnell Douglas Corporation (Boeing) and Nestle Purina. From long-established industry leaders like Monsanto (now part of Bayer), to powerhouse start-ups like Square, innovation and entrepreneurship are converging in St. Louis. SLU is a major provider of talent for these companies and an anchor institution for a growing part of the city.

The Cortex Innovation Community, which SLU helped found and anchor in the corridor between SLU and Washington University, is a major consortium to help fund and foster new companies developing new technologies across sectors. St. Louis is already a major player in plant genetics/genomics, health data analytics, financial data analytics, and related fields. With the Taylor gift and the construction of the Next NGA campus, St. Louis is also poised to become a major hub of geospatial activity. According to the St. Louis Regional Chamber, St. Louis is the fastest-growing city in the country in terms of new technology jobs.
Strong Leadership

SLU is led by Fred P. Pestello, Ph.D., who was appointed President and Chief Executive Officer of SLU in 2014. He is the first permanent lay president of the University. Dr. Pestello previously served for six years as president of Le Moyne College in Syracuse, achieving record-breaking levels of enrollment, endowment and campus construction. Earlier, he was faculty member, department chair, associate dean and provost and senior vice president for educational affairs during his 25-year career at the University of Dayton.

Dr. Pestello’s vision for SLU is of a global Jesuit university that is mission-focused, student and patient-centered, and research driven while also working with the people of St. Louis to reimagine, transform, and unify the city. In pursuit of this vision, SLU has:

- Launched a comprehensive assessment and identified transformative strategies to support the holistic well-being of students, across the institution;
- Developed a new core curriculum that will prepare all SLU students to be intellectually flexible, creative and reflective critical thinkers in the spirit of the Catholic, Jesuit tradition;
- Served as the coordinating institution in the launch of the Taylor Geospatial Institute, a landmark collaboration between eight research institutions that will make St. Louis the global center of geospatial innovation;
- Enhanced healthcare to underserved populations in Saint Louis through the compassionate care of SLUCare physicians, COVID vaccine distribution to churches and other community locations, and a soon-to-be-launched mobile health unit;
- Formed a historic partnership with leading Catholic health care provider SSM Health, which included a new $550 million hospital and ambulatory care center completed in 2020;
- Supported the Gate District West neighborhood association in leading the development of new housing on property adjacent to SLU’s campus. To date, 25 single-family homes, eight condos, and three Habitat for Humanity homes have been constructed in the neighborhood.

In partnership with University and community leaders, Dr. Pestello has strengthened SLU’s longstanding commitment to the Jesuit mission, most recently through the construction of a new $17 million Jesuit Center on campus, and to diversity and community engagement – in part – through the development and consistent focus on the 2014 Clock Tower Accords.

Dr. Pestello has also led SLU to become a driving force in the revitalization of midtown St. Louis. The University joined with SSM Health to create a 353 Redevelopment Plan and the St. Louis Midtown Redevelopment Corporation (STLMRC). The STLMRC has catalyzed several completed development projects, including the City Foundry, a new Fresh Thyme Market grocery store, the Steelcote Lofts, and the Element Hotel by Westin. Renovation of the historic Armory is well underway, and construction has begun on a Target store set to open in summer 2023.
Belief in the University vision has taken root among benefactors as well, inspiring historic levels of giving. Dr. Pestello launched SLU’s $500 million “Accelerating Excellence” campaign, the largest campaign in SLU history. The University has seen multiple giving records throughout the campaign, including its best fundraising years and largest gift to date. As the campaign wrapped up in the summer of 2022, its long list of achievements included surpassing the original goal by over $100 million. Dr. Pestello currently serves on the executive committee of the Association of Jesuit Colleges and Universities and is a former member of the executive committee of the National Association of Independent Colleges and Universities. He is also a member of the executive committee of the Atlantic 10 Conference. Among the boards on which he serves in St. Louis are Greater St. Louis Inc., the Cortex Innovation Community, Bi-State Development and Arch to Park.

Michael Lewis, Ph.D. was appointed permanent Provost in February 2021 after serving as interim Provost for more than one year. As the University’s chief academic officer, he reports directly to the president and is responsible for the fulfillment of SLU’s mission via the leadership and oversight of all academic, research, scholarship, student development, and enrollment management services.

Dr. Lewis is responsible for supporting major initiatives advancing SLU’s University Strategic Plan. In collaboration with the University vice presidents and members of the executive staff, he is responsible for the development and implementation of all academic strategic plans, as well as the development and adherence to the academic affairs budget. The building, renovation, and allocation of all academic and research space is also under his purview.

Lewis joined SLU’s Department of Chemistry in 2004. As a faculty member, he received multiple teaching awards and authored numerous scholarly publications. His administrative career began in 2013 when he became Associate Provost for Faculty Affairs and Development, leading University-level initiatives related to faculty development, faculty hiring, contracts, promotion and tenure policies, workload policies and other efforts aimed at serving SLU faculty members and departments. He has also served as interim dean of the College of Arts and Sciences.

Dr. Lewis received his Ph.D. in Chemistry from the University of Missouri-Columbia and his B.Sc. in Chemistry from Saint Mary's University.
APPENDIX C: SCHOOL OF SCIENCE AND ENGINEERING RESEARCH EXPENDITURES, 2017-2022