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Office of Grants and Research Services

2024

Office of Grants and Research Services Annual Report 2023 - 2024

Office of Grants and Research Services, Seton Hall University

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OFFICE OF GRANTS AND RESEARCH SERVICES



ANNUAL REPORT
2023-2024

WELCOME LETTER

JOHN BUSCHMAN

Associate Provost for Research and Innovation and Dean of University Libraries

I am pleased to share the 2023-2024 Annual Report for the Office of Grants and Research. This report highlights the achievements and dedication of our faculty and researchers who have worked tirelessly this year to secure grants and advance research across diverse fields.

As you review these pages, you'll see the impact of their hard work and innovation. We are grateful for your support and look forward to future accomplishments together. Thank you for being a vital part of our academic mission.



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BY THE NUMBERS

38

UNIQUE GRANT APPLICANTS

6

COLLEGES AND ONE INSTITUTE SUBMITTED PROPOSALS

29

MILLION DOLLARS IN NEW PROPOSALS

4

RESEARCH AWARDS OVER ONE MILLION DOLLARS

18

RESEARCH AWARDS

2

INSTITUTIONAL AWARDS OVER ONE MILLION DOLLARS

13

FACULTY MEMBERS AWARDED

10

MILLION DOLLARS IN TOTAL AWARDS

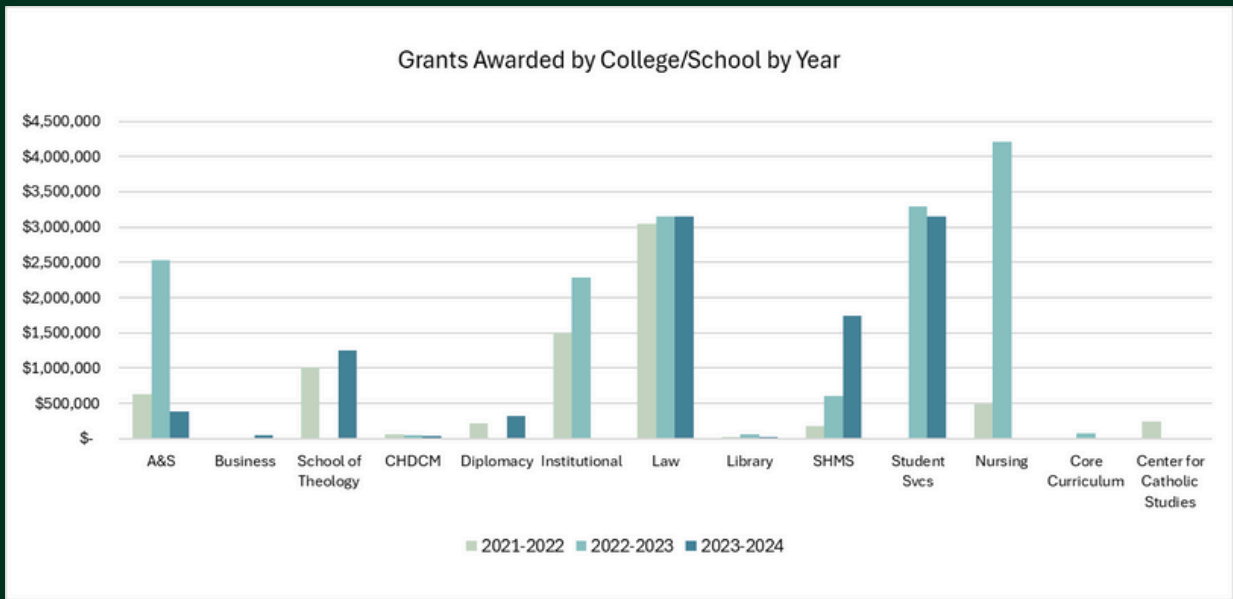
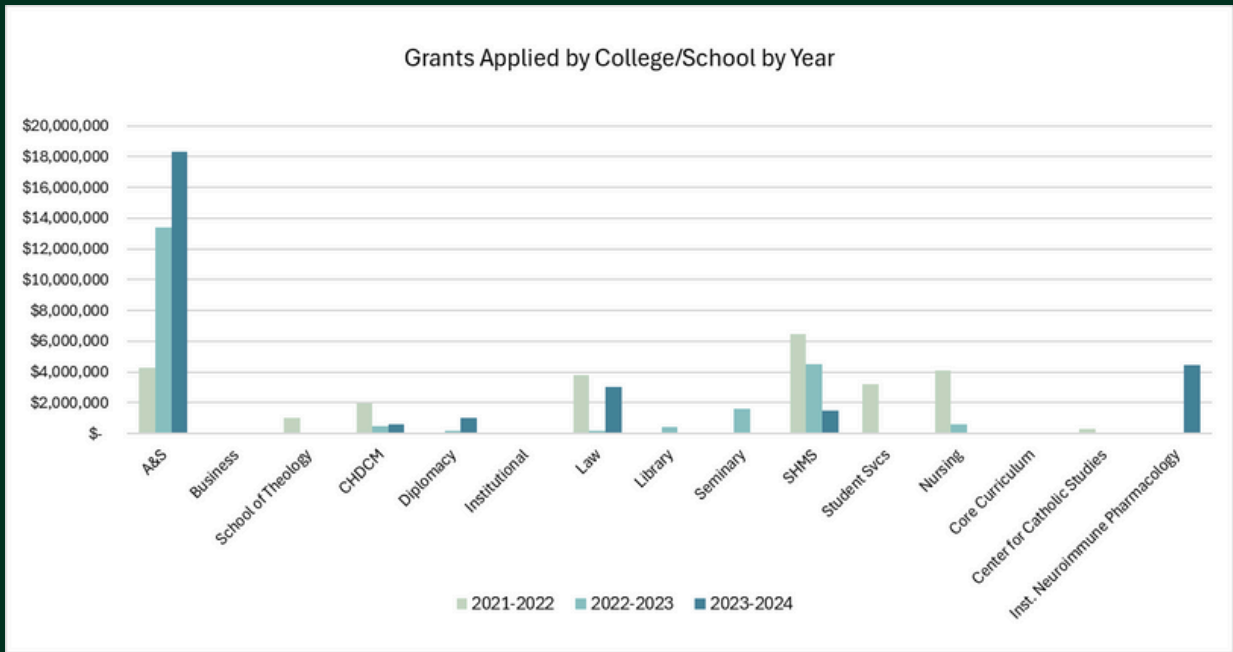


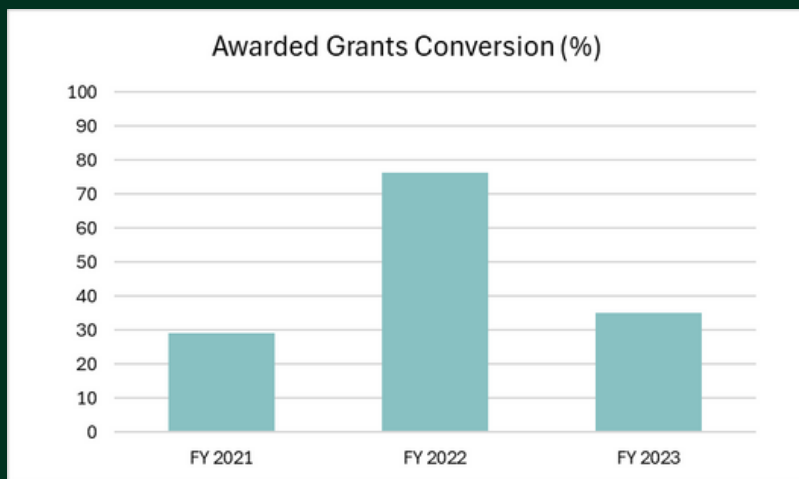
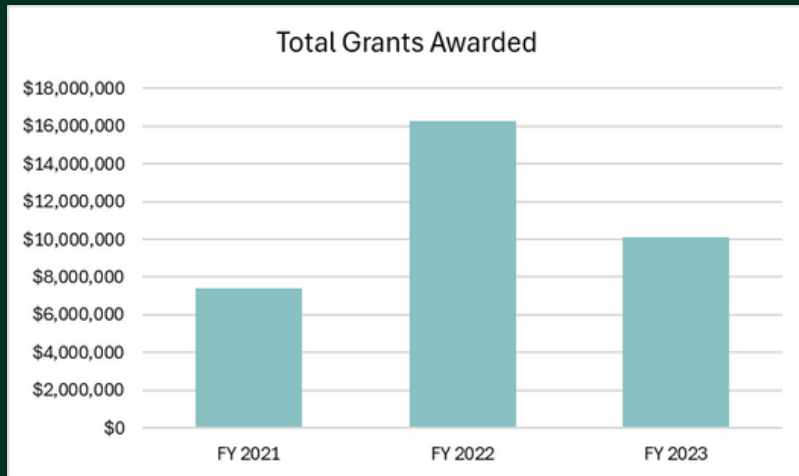
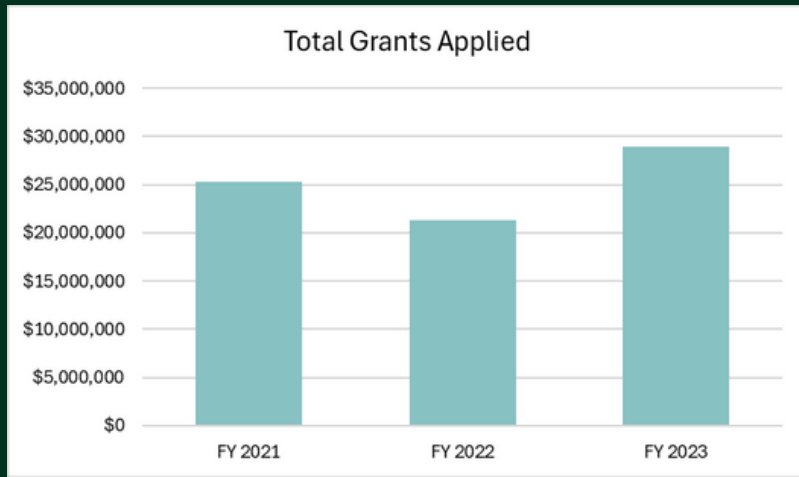
PROPOSALS

College/School	2021-2022	2022-2023	2023-2024
A&S	\$4,281,478	\$13,403,687	\$18,303,787
Business	\$45,000	\$0	\$3,000
School of Theology	\$1,000,000	\$0	\$68,323
CHDCM	\$1,947,931	\$492,057	\$603,685
Diplomacy	\$78,062	\$162,243	\$980,560
Institutional	\$0	\$0	\$0
Law	\$3,806,405	\$148,700	\$3,016,555
Library	\$80,690	\$388,858	\$54,900
Seminary	\$0	\$1,600,000	\$0
SHMS	\$6,436,741	\$4,493,005	\$1,464,020
Student Svcs	\$3,201,518	\$0	\$0
Nursing	\$4,088,084	\$584,676	\$0
Core Curriculum	\$0	\$0	\$0
Center for Catholic Studies	\$300,000	\$0	\$0
Institute Neuroimmune Pathology	\$0	\$0	\$4,422,332
TOTAL	\$25,265,909	\$21,273,226	\$28,917,162

AWARDS

College/School	2021-2022	2022-2023	2023-2024
A&S	\$635,108	\$2,534,353	\$388,779
Business	\$0	\$0	\$52,000
School of Theology	\$1,000,000	\$0	\$1,250,000
CHDCM	\$56,000	\$44,713	\$42,790
Diplomacy	\$214,876	\$0	\$317,418
Institutional	\$1,495,190	\$2,281,600	\$0
Law	\$3,045,000	\$3,154,805	\$3,154,200
Library	\$19,892	\$55,878	\$20,000
Seminary	\$0	\$0	\$0
SHMS	\$180,900	\$602,662	\$1,736,933
Student Svcs	\$0	\$3,288,381	\$3,150,000
Nursing	\$488,531	\$4,213,964	\$0
Core Curriculum	\$0	\$80,251	\$0
Center for Catholic Studies	\$248,469	\$0	\$0
TOTAL	\$7,383,966	\$16,256,607	\$10,112,120





NEWS



ENHANCE LANGUAGE SKILLS IN HEALTHCARE AND DIPLOMACY

Peter Shoemaker was awarded a grant from the U.S. Department of Education's Title VI Undergraduate International Studies and Foreign Language (UISFL) Program. The goal of the grant is to enhance language skills in healthcare and diplomacy while addressing New Jersey's linguistic diversity.

This grant is an institutional award with two components. The first component is language training for Allied Health Students. The program will develop a Spanish for Healthcare certificate and pilot programs in Chinese and Tagalog, emphasizing experiential learning through internships. The second component is the integration with the School of Diplomacy and International Relations to offer special language courses. This includes an OPI-based certification program, study abroad opportunities, and internships requiring language proficiency.



LOST AND FOUND: AN ECCLESIASTICAL MYSTERY AND A CARDINAL'S DEATH BROUGHT TO LIGHT

Professor William Connell of Seton Hall University has discovered a rare 16th-century manuscript, "The Republic of the Church," written by Donato Giannotti in 1541. This work, the first history of the Catholic Church by a layperson, proposes radical reforms, suggesting a shift from papal monarchy to a republic led by the College of Cardinals. Commissioned by Cardinal Niccolò Ridolfi, who died mysteriously during the 1549-50 Papal Conclave, the manuscript's ideas are relevant to contemporary discussions on Church governance.



LIVING IN A MATERIAL WORLD: SERGIU GORUN'S GRANT-SUPPORTED INNOVATIVE CHEMISTRY

Professor Sergiu Gorun at Seton Hall University is conducting innovative research in material chemistry, focusing on developing materials that enhance public safety and environmental protection. His work, supported by grants from agencies like the Department of Defense, includes creating materials that generate activated oxygen for potential applications in cancer treatment and protection against chemical threats. Gorun collaborates on projects to develop protective materials against chemical weapons and conducts research on detecting antibiotic-resistant bacteria. His efforts reflect Seton Hall's commitment to impactful research and preparing students for real-world challenges through hands-on scientific experience.

FROM HEART TO HOMILY: ICSST'S \$1.25 MILLION LILLY "PREACHING AS HOSPITALITY" GRANT ENTERS YEAR ONE

Seton Hall University's Immaculate Conception Seminary School of Theology (ICSST) has received a \$1.25 million Lilly Endowment grant to establish a "Preaching as Hospitality" program over five years. This initiative aims to train preachers to engage with Scripture and embody Christian hospitality, focusing on welcoming and empathizing with diverse audiences. Key components include preparing future priests and deacons, involving the ICSST community, and reaching out to clergy across New Jersey. As one of 81 funded organizations, ICSST seeks to enhance contemporary preaching practices while fulfilling its mission of theological education and spiritual formation.



SETON HALL UNIVERSITY AWARDED NEARLY \$1 MILLION TO ADVANCE SEMICONDUCTOR RESEARCH

Seton Hall University has received nearly \$1 million in federal funding to enhance semiconductor research, primarily from Representative Mikie Sherrill. The \$963,000 grant will upgrade scientific equipment and establish a new laboratory focused on low-temperature plasmas and next-generation semiconductor materials. This initiative aims to improve STEM education and support the U.S. semiconductor manufacturing industry, aligning with the CHIPS and Science Act of 2022. The funding will also enhance research facilities, providing students with access to advanced resources for their careers in this critical field.

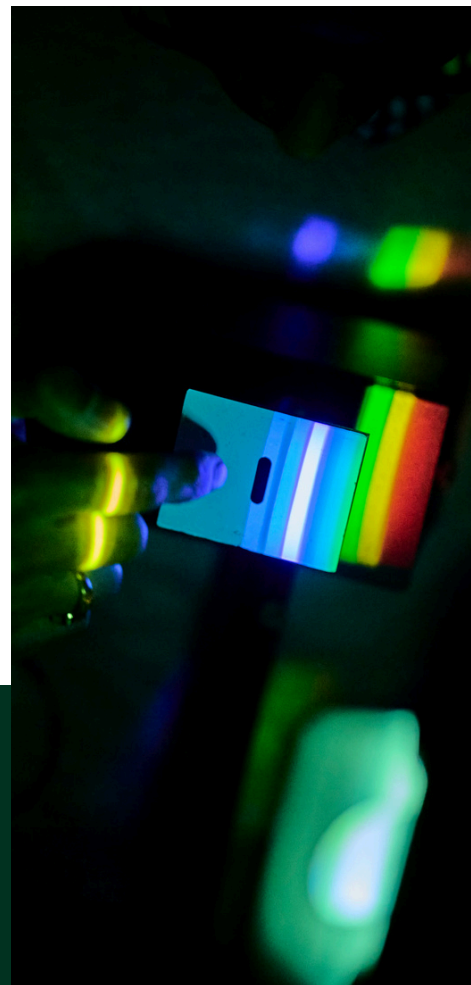
SETON HALL COMPUTER SCIENCE PROFESSOR AWARDED GRANT FROM NSF

Seton Hall University's Professor Jason Hemann has received a National Science Foundation (NSF) grant for his project "Systematic Construction of Teaching Language Progressions for Embedded Domain-Specific Languages." The grant will support the development of the software program "Racket," designed to teach novice programmers through a tiered approach, enhancing foundational skills before advancing. Hemann's research, which incorporates techniques from established programming languages, aims to improve programming education over the next two years while benefiting from collaboration with students new to programming.

PROFESSORS RUTH SEGAL AND MICHAEL LAFOUNTAINE RECEIVE \$1.7M IN GRANTS

A 3-year, \$556,000 grant was awarded to Professor Michael LaFountaine, associate dean for academic affairs and research and professor in the Department of Physical Therapy in the School of Health and Medical Sciences by the New Jersey Commission on Spinal Cord Research. His project, entitled, "Exploring the Impact of Calcitonin Gene-Related Peptide on the Pain Experience of Persons with Chronic Spinal Cord Injury (SCI)," will investigate whether specific combined genes create greater pain in individuals living with SCI than others with a different genetic makeup.

Additionally, another SHMS faculty member, Professor Ruth Segal, department chair and professor within the Department of Occupational Therapy, will co-direct a new five-year training grant of over \$1.18 million through the departments of Occupational Therapy and Speech-Language Pathology in SHMS. The grant, from the U.S. Department of Education's Office of Special Education Programs, focuses on curriculum development and training towards improving outcomes for school-age children with Autism Spectrum Disorder.



FACULTY AND STUDENTS RECEIVE STEM RESEARCH AWARDS

Professor Heping Zhou and biology student Shilpitha Kadiyala have been honored with the STEM Research Award for their outstanding contributions to scientific research. This award recognizes their commitment and innovative efforts in the field, encouraging further exploration and engagement in STEM disciplines. Their work not only advances knowledge but also serves as an inspiration to fellow students, emphasizing the importance of undergraduate research experiences in shaping future scientists.

Additionally, Cosimo Antonacci and biology student Daniella Catao have been awarded the STEM Undergraduate Research Award for their exceptional contributions to research in the field. This prestigious recognition highlights their dedication and innovative work, which not only advances scientific knowledge but also inspires fellow students in the STEM disciplines. The award aims to encourage undergraduate students to engage in meaningful research experiences, fostering a new generation of scientists committed to addressing real-world challenges.



OUR RESEARCH AREAS

HEALTH AND WELL BEING

In the area of Health and Well-Being, the School of Health, and Medical Sciences (SHMS) established a Center for Interprofessional Education in the Health Sciences (CIEHS) engaged in and creating opportunities for meaningful and cross-disciplinary educational, research, and clinical experiences. The goal is to further develop team-based, person-centered learning in healthcare.

SOCIETY, TECHNOLOGY, COMMUNICATION AND CULTURE

Research in the thematic area of Society, Technology, and Communication fosters ethical, servant leaders for diverse local, regional, and global communities. This is enabled by formal and informal systems education, public and international safety, savvy diplomacy and international relations, technology as a tool and a means to liberation, and communication in all forms, especially digital communication. The College of Human Development, Culture, and Media, and the School of Diplomacy collaborate in research in these areas.

SCIENCE, DATA SCIENCE AND ANALYTICS

Led by the College of Arts & Sciences and the Stillman School of Business, research advancement in the Life Sciences, Data Sciences, and Analytics takes place at various centers and degree programs. Students and faculty better understand societal challenges and positively impact the world by synthesizing data in all forms, analyzing data to find meaning, and communicating information effectively to drive important discovery insights, as well as applied policy, management, and practice implications.

ETHICS, SPIRITUALITY AND SCIENCES

In Ethics, Spirituality, and Science, centers for ethics, interfaith dialogue, and institutes of religious studies and communication promote theological engagement with the natural sciences and medicine and probe the relationship between faith and reason. This area brings together work at Seton Hall Law School, at the School of Theology, College of Arts and Sciences, School of Health and Medical Sciences, and the College of Human Development, Culture, and Media.



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Principal Investigator Handbook



INSTITUTIONAL INFORMATION

Seton Hall is a private non-profit
institution of higher education (IHE).

The University is tax-exempt under
Section 501 (c) (3) of the Internal
Revenue Code

Unique Entity Identifier (UEI):
HHVJKY3UIQV6

Entity Identification Number (EIN)
22-1500645

Dun & Bradstreet Number
07-932-4315

Animal Welfare Assurance Number
A-3461-01

Human Subjects Assurance Number
FWA00001223

Current Misconduct in Science Report
March 15, 2023

Congressional District (Newark)
Newark 11th

State Legislative District
South Orange Village 27th

Current DHHS Facilities and
Administration Agreement
February 2, 2022