

OFFICE OF PROPOSAL DEVELOPMENT

ANNUAL REPORT JULY 1, 2021 - JUNE 30, 2022

WHO WE ARE & WHAT WE DO

The Office of Proposal Development (OPD) promotes the advancement of university initiatives by supporting the development and preparation of highly competitive grant proposals. OPD is committed to providing Stony Brook's research community with a comprehensive suite of services to foster the development and growth of research activities. In addition to proposal development and management, our support services include identifying extramural funding opportunities, coordinating limited submission competitions, nurturing research collaborations, and connecting researchers to institutional resources. OPD manages the OVPR Seed Grant Program, which promotes innovative scientific and scholarly activities that are aligned with existing or upcoming funding priorities with the goal of giving faculty a competitive edge in securing external research funds. We also organize workshops and trainings in grantsmanship, coordinate external copy editing and graphic design services, serve as project managers for the proposal development process, handle proposal administrative requirements and manage a repository of sample grant proposal materials. Our team's forward-thinking approach to research development provides faculty with tactical support for large-scale proposals, ensuring that they are aligned with sponsor funding priorities.

CONTACT INFORMATION

Office of Proposal Development
Office of the Vice President for Research
N5580 Melville Library
Stony Brook University
Stony Brook, NY 11794-3365

OPD_OVPR@stonybrook.edu
(631) 632-3127

www.stonybrook.edu/commcms/proposal-development

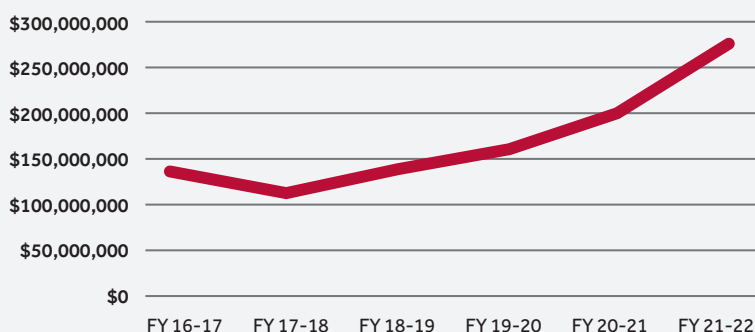
[OPD SERVICES FLYER](#)

PROPOSAL ACTIVITY CUMULATIVE PROPOSAL ACTIVITY (FY 16-17 through FY 21-22)

Since our first full year of operation, FY 16-17, OPD has supported a total of 406 proposals. Below is a breakdown of those proposals by type and associated amounts to show OPD's cumulative activity between FY 16-17 and FY 21-22.

PROPOSAL TYPE	NUMBER SUPPORTED BY OPD
Large/Complex	117
Preliminary Proposals/Letters of Intent	35
Research Development Services	16
Single-PI	198
Training Grants	40
Grand Total	406

TOTAL BUDGETED AMOUNTS BY FISCAL YEAR



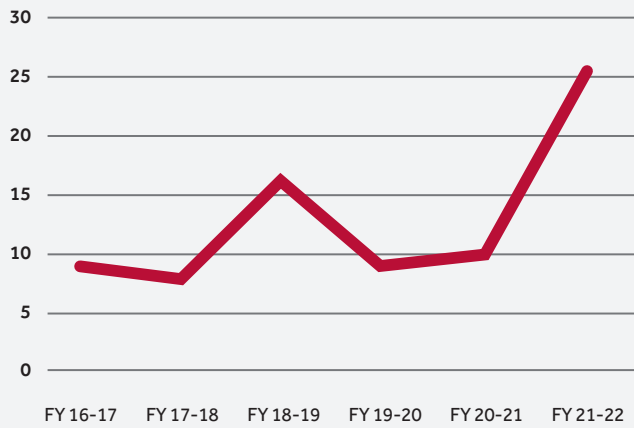
From 2018 on, OPD has shown consistent and significant growth in the budget amount of supported proposals. In FY 21-22, OPD saw the largest increase in a single fiscal year, supporting a total budget amount that was \$79,076,978 higher than the total budget amount of proposals supported in the prior fiscal year. Additionally, the average size of the proposals submitted by OPD has grown from \$2.8M to \$4M over the past fiscal year.



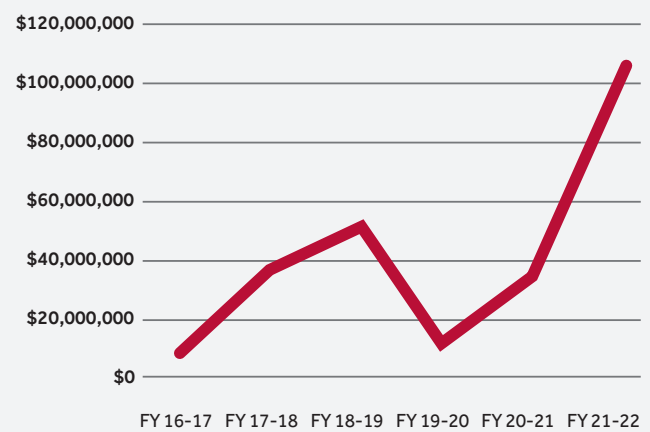
Stony Brook Research

PROPOSAL ACTIVITY

NUMBER OF SUBMISSIONS TO NIH BY FISCAL YEAR

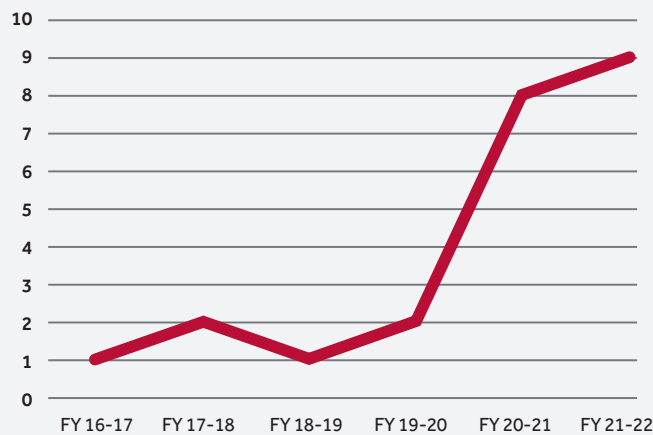


SCHOOL OF MEDICINE BUDGET AMOUNTS BY FISCAL YEAR

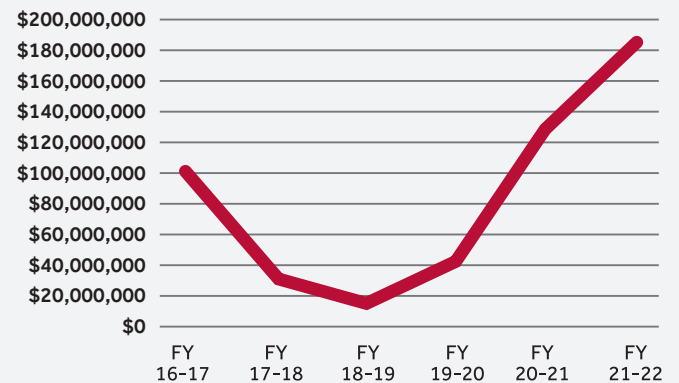


Partly driving this dramatic increase in the total budget amount of proposals supported by OPD are the increased number of submissions to NIH as well as an increased number of proposals from the Renaissance School of Medicine (RSOM) investigators that were supported by OPD staff in the most recent fiscal year. Specifically, OPD's support of RSOM proposals substantially increased from ten in FY 20-21 to 24 in FY 21-22, representing a 140% increase. The total funds requested from external sponsors for RSOM proposals increased by over 210% from FY 20-21 to FY 21-22 demonstrating that OPD not only supported more, but also larger RSOM proposals. Similarly, OPD's support of NIH proposals increased from ten in FY 20-21 to 25 in FY 21-22, representing a 150% increase.

NUMBER OF PROPOSALS REQUESTING \$10M OR MORE BY FISCAL YEAR



TOTAL COMBINED BUDGETS OF PROPOSALS REQUESTING \$10M OR MORE BY FISCAL YEAR



In recent years, one of the key metrics used to evaluate OPD's impact on campus has been our support of proposals with budgets over \$10M. While large and complex proposals have always been a priority area for OPD, we have seen notable growth in large proposal activity over the past couple of fiscal years. In the most recent fiscal year, OPD supported 90% of the proposals with budgets at or over \$10M, representing a 43% increase in requested funds from the previous fiscal year and a 478% increase since our first full fiscal year in operation (i.e., FY 16-17).

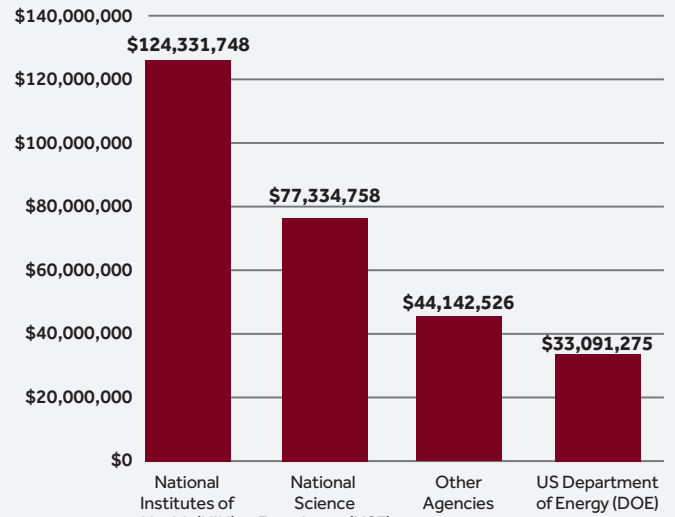
PROPOSAL ACTIVITY

PROPOSAL ACTIVITY IN FY 21-22

PROPOSAL TYPE	AWARDED	DECLINED	PENDING	GRAND TOTAL
Large/Complex	5	6	6	17
Preliminary Proposal	1	2	4	7
RD Services	1	8	7	16
Single-PI	5	10	6	21
Training Grant	2	4	2	8
Grand Total	14	30	25	69

Proposals supported by OPD over this past fiscal year have already yielded over \$34M in awards with 36% of proposals still pending funding decisions by the sponsors. This represents a current award rate of 32%. The current award rate of large and complex proposals, one of the priority areas for OPD, is 45%.

TOTAL BUDGETED AMOUNTS BY AGENCY FOR FY 21-22



SCHOOL/COLLEGE	SUM OF TOTAL BUDGET AMOUNT
Centers/Institutes	\$ 508,221
College of Arts and Sciences	\$134,566,208
College of Engineering and Applied Sciences	\$ 15,076,599
Graduate Schools	\$ 5,549,519
School of Marine and Atmospheric Sciences	\$ 17,055,071
School of Medicine	\$105,445,217
Others	\$ 699,472
Grand Total	\$278,900,307

SUBMISSIONS BY FUNDING AGENCY (FY 21-22)	AWARDED	DECLINED	PENDING	GRAND TOTAL
National Institutes of Health (NIH)	3	11	11	25
National Science Foundation (NSF)	6	13	6	25
US Department of Energy (DOE)	3	1	2	6
Other	2	5	6	13
Grand Total	14	30	25	69

OPD submitted a total of 69 proposals in this past fiscal year, requesting over \$278M in funding from the National Institutes of Health (NIH), the National Science Foundation (NSF), the US Department of Energy (DOE), and other sponsors.

PROPOSAL DEVELOPMENT SERVICES

LARGE AND COMPLEX PROPOSALS AND TRAINING GRANTS

PROPOSAL DEVELOPMENT: OPD works side-by-side with the PI team to conceptualize education and workforce development, diversity, and organizational management plans for large and complex proposals. To ensure a high-quality, professional product, OPD facilitates engagement with external evaluators and graphic designers.

PROPOSAL MANAGEMENT: Large and complex proposals often include several investigators across different departments, colleges and schools at Stony Brook University and across other institutions. OPD coordinates and manages the proposal by conducting a thorough analysis of the FOA, creating a checklist of all required documents, creating a shared virtual workspace, coordinating all proposal documents, planning team meetings, and maintaining a timeline to meet internal and sponsor deadlines.

ADMINISTRATIVE COMPONENTS: To enable the PI to focus on the technical aspects of the proposal, OPD focuses on assisting with the required administrative components of the proposal. Specifically, OPD develops budgets and justifications and coordinates subcontract documentation, cost share negotiations and documentation, letters of support/collaboration, and personnel documentation (e.g., biographical sketches). OPD also assists with both internal and sponsor proposal systems.

DATA TABLES: To facilitate the development and submission of training grants, and NIH training grants in particular, our office provides comprehensive support to collect, review and format data for the required NIH training tables. To do this, we gather data from the potential mentors, participating departments, the Office of Institutional Research, the Graduate School and the Office of Postdoctoral Affairs. We then review and compile the data from all sources, gather any missing information and then format the data following NIH guidelines.

For each proposal, OPD adapts its services to meet the needs of the specific FOA and the PI team. OPD strives to provide the highest quality support to ensure each proposal is as competitive as possible.

Over the past fiscal year, OPD supported 17 large and complex proposals and 8 training grants.

OPD supported the development and successful submission of an NIH Clinical and Translational Science Award (CTSA) application, which will provide funds to expand Stony Brook's clinical research infrastructure. This two-part application included a UM1 component, with a budget totaling over \$29M, and an institutional career development component (KL2), with a budget totaling over \$3.7M. Additionally, working with the Office of Government Relations, we submitted an application to HRSA to access a \$10M congressionally directed spending request to Senator Chuck Schumer to construct a research space at Stony Brook University Hospital, providing beds for research participants to increase our clinical research capacity.

In the past fiscal year, OPD supported the development of all three NSF Major Research Instrumentation (MRI) proposals allowed by the NSF, and all three were awarded. Therefore, we maximized Stony Brook University's opportunity to leverage this valuable program to expand our research capacity.

OPD supported the development of seven Department of Education Graduate Assistance in Areas of National Need (GAANN) proposals to support graduate training. Five of them were awarded, a record amount for our institution, bringing the total number of active SBU GAANNs to six.

EARLY CAREER PROPOSALS

Over the past fiscal year, OPD supported 20 proposals for early career faculty. OPD supports early career faculty proposals primarily through annual soup-to-nuts support activities targeting specific funding mechanisms, such as the NSF CAREER program. In these program-specific workshops, faculty have the opportunity to hear panels of past award recipients as well as campus experts in education and outreach. OPD staff also lead sessions focused on tips for proposal management, guidance on responding to reviewer comments, strategies for proposal writing, and of course how to successfully develop proposal components. Finally, OPD provides one-on-one assistance with budget development, strategies for Education Plan development, proposal document proofreading and editing, and support with internal and sponsor proposal systems.

PROPOSAL DEVELOPMENT WORKSHOPS

In the Fall 2021 semester, OPD organized the Early Career Workshop Series, made up of the following virtual events:

Workshop 1 – Introduction to Various Sponsors

Thursday, September 23rd, 2021 at 4-5 pm

- Federal Sponsors (DOE, NSF, NIH, DOD).
- Private Sponsors (Foundations, Corporations).
- Overview of the submission process.

Workshop 2 – Understanding a Funding Opportunity Announcement

Thursday, October 21, 2021 at 4-5 pm

- How to find funding opportunities.
- How to dissect and interpret a funding opportunity announcement.

Workshop 3 – How to Construct a Budget

Thursday, November 18, 2021 at 4-5 pm

- Why the budget is critical to a successful proposal.
- How and when to include major equipment purchases.
- Overview of fringe benefits, indirect costs (F&A), and institutional base salary.

Workshop 4 – Engaging with a Program Officer

Thursday, December 2, 2021 at 4-5 pm

- The importance of connecting with program officers.
- How to schedule a meeting with a program officer.

PowerPoint slides from each session can be found on the [OPD SharePoint site](#).

ADDITIONAL GRANT WRITING AND PROPOSAL DEVELOPMENT WORKSHOPS SPONSORED BY OPD IN THE SPRING 2022 SEMESTER

Faculty Research Career Series: Achieving Excellence in Writing, Speaking, and Leading

OPD partnered with Still Point Coaching & Consulting to present this workshop series for all faculty, made up of the following events:

Workshop 1 – Scientific Writing:

Think Message, Audience, Objective

Thursday, February 10, 2022 at 4-5 pm

- Hone the skills needed to turn creative ideas into clear and compelling products that transform reviewers and editors into advocates and allies.

Workshop 2 – Scientific Presentations:

Communicating in all Modalities

Thursday, March 17, 2022 at 4-5 pm

- Learn how to plan and structure your talk to keep all audiences engaged.

NSF CAREER Award Workshop Series

OPD offered a virtual workshop series to assist early-career faculty in developing competitive proposals for the NSF Faculty Early Career Development Program (CAREER). This year's lineup of workshops included:

Workshop 1 – NSF CAREER Kick-Off

Wednesday, May 25, 2022 at 10-11 am

- Presented by OPD, an introduction of this month-long series focusing on the "soup to nuts" of NSF CAREER application preparation.

Workshop 2 – Meet and Greet with Past Awardees

Wednesday, June 1, 2022 at 1-2:30 pm

- Discuss and learn about NSF CAREER from colleagues who have successfully applied and won!
- Moderated by Dr. Paul Shepson, Dean of the School of Marine and Atmospheric Sciences.

Workshop 3 – Writing Strategy Workshop

Tuesday, June 7, 2022 at 1-2:30 pm

- Strategic writing tips for a strong proposal.
- Presented by Dr. Susan Brennan, Professor of Psychology.

Workshop 4 – Education Plan Workshop

Monday, June 13, 2022 at 2-4 pm

- Presented by Dr. Nina Maung-Gaona, Associate Vice President for Research, and Dr. Sheri Clark, Assistant Director of OPD.

Workshop 5 – Education and Outreach Partners

Tuesday, June 21, 2022 at 12-2 pm

- Network with campus experts in education and outreach.

Workshop 6 – Designing Powerful Broader Impacts

Wednesday, June 22, 2022 at 12-2 pm

- Presented by Dr. Laura Lindenfeld, Dean of the School of Communication and Journalism, and Executive Director of the Alan Alda Center for Communicating Science.

Workshop 7 – Evaluation Workshop

Monday, June 27, 2022 at 11am-12pm

- Explore the details of an evaluation plan.
- Presented by Catherine Scott, Director of Educational Effectiveness, and Dr. Rose Tirotta-Esposito, Director of the Center for Excellence in Learning and Teaching.

In addition to the events listed above, OPD offered individualized proposal development support for NSF CAREER applicants through the following:

- Drop-In Office Hours
- Budget Development Assistance
- Assistance with MyResearch and Research.gov
- Writing Support
- Copy Editing Services
- Graphic Design Services

PROPOSAL DEVELOPMENT WORKSHOPS

NIH Director's Early Independence Awards Workshop – Tips for a Successful Submission

Friday, June 3, 2022 at 11am-12pm

Featuring a panel of Stony Brook University faculty, this workshop provided an overview of the 2023 NIH Director's Early Independence Award.

Grant Writing for Postdocs and Advanced Graduate Students

OPD partnered with The Office of Graduate and Postdoctoral Affairs and The Center for Inclusive Education to present an Academic Research Funding Strategies, LLC workshop series for postdocs and advanced graduate students. The workshop series was made up of the following events:

Workshop 1 – Pursuing Funding to Support Your STEM Research

Thursday, June 23, 2022 at 12-2 pm

- A webinar for graduate students and postdocs discussing how to get research funding as an independent STEM researcher. Topics covered included: how to identify likely funders, positioning, key steps for planning a fundable research project, and best practices and common mistakes to avoid when writing a competitive proposal.

Workshop 2 – Pursuing Funding to Support Your Humanities/Social Science Scholarship

Thursday, June 30, 2022 at 12-2 pm

- A webinar for graduate students and new faculty on how to pursue external grants to support scholarship in the humanities and lettered social sciences. Topics covered included why and when you should consider pursuing funding, types of grants and funders, and what reviewers are looking for.

UPCOMING YEAR

NIH R-Award Workshop Series

OPD will start the Fall 2022 semester by engaging early career faculty in NIH research awards support. This introduction to the R series will include the following sessions:

Workshop 1 – NIH R Series Kick-Off

Thursday, October 20, 2022 at 2-3 pm

- This kick-off session will introduce NIH R mechanisms, funding trends, and key resources. The more practical pieces of the R proposal process will be discussed including: How applications are reviewed, matching research to the right fit, and key proposal elements to start thinking about.

Workshop 2 – Proposal Strategy: Study Sections, Specific Aims, Research Plans, and More

Thursday, November 3, 2022 at 11 am-12 pm

- This session is designed to develop the strategic approach to the R grants proposal process. It will include guidance on study sections, while participants will also receive useful tips for developing specific aims and understanding the merit review process.

Workshop 3 – Developing Administrative Components: Biosketches, Budgets, and More

Thursday, November 17, 2022 at 2-3 pm

- This session will guide participants through proposal processes from development to submission, with a special focus on administrative components such as biosketches and what to consider when planning and justifying a modular budget.

Workshop 4 – Meet and Greet with R-Awardees

Thursday, December 1, 2022 at 11 am-12 pm

- This Q&A session will bring together a diverse faculty panel of successful NIH research awardees. Their knowledge and areas of expertise will provide a solid group mentoring opportunity that should not be missed.

RESEARCH DEVELOPMENT INITIATIVES

EXTERNAL SERVICES

The needs of investigators vary greatly, depending on their access to existing support (i.e., within departments), their status at the University (i.e., established investigators with specialized needs), and the targeted funding program. In FY 21-22, OPD extended our services to provide external copy editing and graphic design support for Stony Brook University faculty. OPD supported an additional 16 proposals during the past fiscal year by providing these external services. From those submissions, Stony Brook has already received \$3.5M in external funds.

Research teams that receive external services can expect the support of an OPD staff member to serve as a liaison between the PI and the external consultant. Faculty also benefit from a discounted price in the service as OPD covers half of the cost, up to a maximum of \$1,000. All of the external consultants recommended by OPD are experienced grant editors or graphic designers that have been working with our office effectively and have signed confidentiality agreements on file.

Our external services model was designed to support faculty that may not otherwise have the opportunity to work with OPD. This expanded service model enabled OPD to significantly broaden our reach across campus, and even led to the formation of a partnership with the Department of Anesthesiology. After seeing the value in the copy editing service, the department budgeted to cover the PI's half of the cost, making the service free for all Anesthesiology faculty. This partnership further developed as faculty in the department started working with internal proposal development staff, taking advantage of the full suite of services offered by OPD.

OPD staff understand that proposal development needs are not one size fits all. Our new external services model is one example of the constantly evolving support that we offer to serve Stony Brook investigators.

SEED FUNDING

The OVPR Seed Grant Program aims to give Stony Brook University faculty a competitive edge in securing external research funds by supporting and fostering innovative scientific and scholarly activities that will lead to the development of proposals with a greater likelihood of success.

From its inception in 2018 through the end of FY 21-22, the OVPR Seed Grant Program has:

- Made 108 awards totaling \$4.7M
- Managed ten cycles, including four special initiatives:
 - The Quantum Information Science and Technology (QIST) Seed Grant Program
 - The OVPR & IEDM COVID-19 Seed Grant Program
 - Round 1 Revise & Resubmit Seed Grant Program (NIH only)
 - Round 2 Revise & Resubmit Seed Grant Program (All external sponsors)

- Achieved ROI of more than 5:1

In the Fall 2021 seed funding cycle:

- 77 applications were received
- 15 awards were made
- \$677K total was awarded

Preview of next fiscal year:

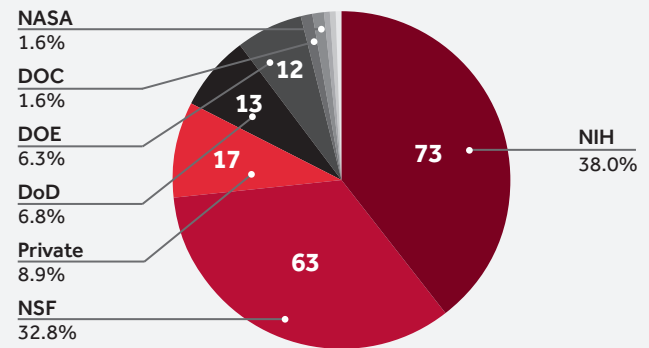
In the Summer 2022 seed funding cycle:

- 48 applications were received
- 19 awards were made
- \$1M total was awarded

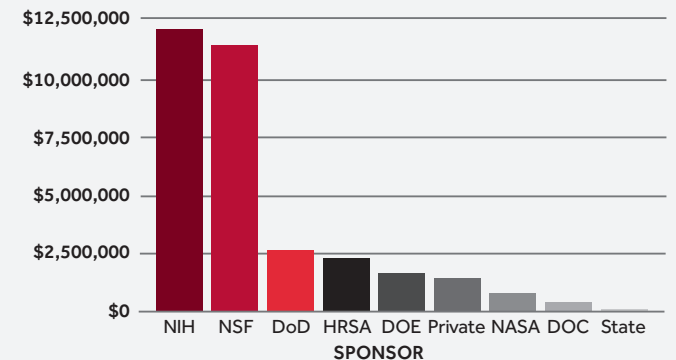
For all seed cycles in FY21-22, including Fall 2021, R&R 1, R&R 2, and Summer 2022:

- 142 applications were received
- 44 awards were made
- \$1,801,489 total was awarded

TARGETED EXTERNAL SUBMISSIONS

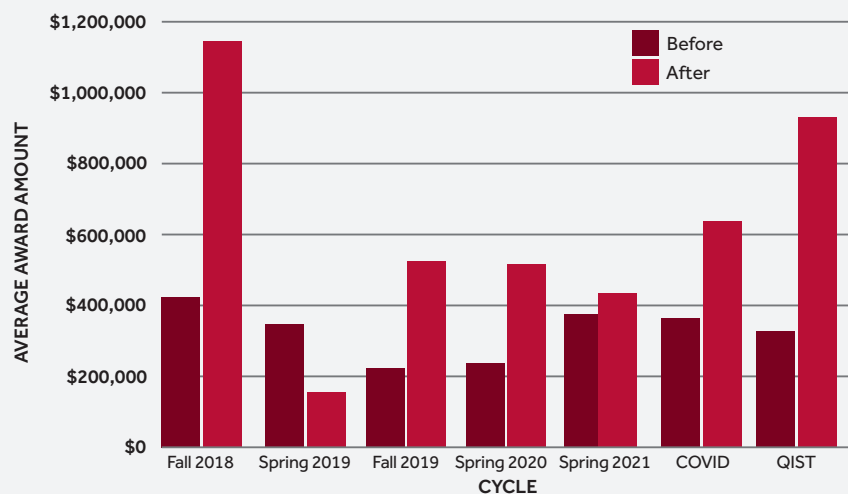


EXTERNAL AWARDS BY SPONSOR



RESEARCH DEVELOPMENT INITIATIVES

AVERAGE EXTERNAL AWARD AMOUNT BEFORE AND AFTER SEED FUNDING



Seed grant awards have a measurable impact on project PIs, as shown in the above chart. The average external award amount among seed grant PIs increases significantly, beginning twelve months after their seed grant award start date. The twelve-month lag represents the time needed to perform the proposed work as well as external sponsor award turnaround time. Note that seed grant cycles with award start dates after July 1, 2021 have not been included in this analysis because not enough time has passed to evaluate the impact of the seed grant award on the PI's external funding level. Spring 2019 was the only cycle so far that did not see this increase in the average external award amount, likely because those projects were active during the height of the COVID-19 pandemic when many external funding opportunities were paused.

OVPR Seed Grant Program Workshop Series

In the Fall 2021 semester, OPD offered a unique opportunity to all OVPR Seed Grant Program winners by inviting them to present their research in a virtual setting. The purpose of the workshop series was to provide investigators with the opportunity to discuss their projects with an interdisciplinary faculty group and to connect with potential collaborators, all with the larger goal of increasing extramural funding submissions and awards. Faculty were able to choose the style of the workshop, either limiting participation to a small group of Stony Brook investigators for a brainstorming session, or opening the event to all faculty as a larger platform to share their research and find possible collaborators. Two seed grant PIs presented their research as part of the series during the sessions below.

Dr. Prateek Prasanna,
OVPR & IEDM COVID-19 Seed Grant Program

"The Virus is in the Details: Discovering Subtle COVID-19 Visual Features on Chest X-rays Using Machine Learning"

Monday, September 27, 2021 at 4-5 pm

Dr. Gabor Balazsi, Spring 2021 Cycle

"Automatic sense-defense system against SARS-CoV-2 and other RNA viruses"

Monday, December 13, 2021 at 4-5 pm

QUOTES

FROM AWARDED PIs ABOUT THE OVPR SEED GRANT PROGRAM:

"The seed grant program has provided a strong foundation for grant applications, and has thus directly benefited our efforts to establish Stony Brook University as a leader in QIST research and education. Through student support, the grant has allowed us to work on important technical developments for the establishment of a quantum network." – *Dominik Schneble, QIST Cycle, December 2021*

"The seed grant program provides faculty scholars and researchers with the opportunity to grow their research in ways that are often limited by existing funding. The flexibility of funds and the streamlined application process saves time and allows researchers to focus on the core work being conducted." – *Bonita London, QIST Cycle, December 2021*

"[Through the Seed Grant Program] we have built a solid informatics driven opioid epidemic research group, which can target more funding opportunities in the future." – *Fusheng Wang, Fall 2019 Cycle, January 2022*

"I highly recommend this seed grant program to my colleagues. The support and validation I received from this program was critical for the initiation and continuation of this research project." – *Helen Hsieh, Fall 2019 Cycle, February 2022*

"We were able to maintain momentum in our collaboration, and accumulate enough data to receive over 860k in external funding. The 55k OVPR award enabled us to receive 15 times more funding." – *Alexander Orlov, Spring 2020 Cycle, May 2022*

RESEARCH DEVELOPMENT INITIATIVES

FACULTY REVIEWER EVENT

In June 2022, OPD hosted the first Faculty Reviewer Event in recognition of all of the faculty members who have served on internal review panels for OVPR programs. Over 250 faculty members were invited to a reception at the Simons Center for Geometry and Physics to thank them for their service on the review committees. The event was well attended, giving faculty and OVPR staff a wonderful opportunity to connect and celebrate the hard work that goes into the OVPR Seed Grant Program on all sides.

LIMITED COMPETITIONS

OPD manages all limited competitions for the University by disseminating information about limited submission funding opportunities and managing the pre-application and review process. In FY 21-22:

- OPD announced 90 limited opportunities
- Faculty expressed interest in applying to 42/90 (46.6%) of those opportunities
- 7/42 (16.6%) of those opportunities generated enough interest to necessitate an internal competition
- 31 proposals were submitted to limited competition programs
- 24 additional proposals will be submitted in the near future
- 11 proposals to external limited submission programs have been awarded so far
- OPD supported 17 of the submitted proposals, six of which were awarded (35.29% success rate for limited competition proposals supported by OPD)

ADDITIONAL FUNDING OPPORTUNITIES SUPPORT/PIVOT FUNDING OPPORTUNITIES DATABASE

OPD manages the university's subscription to Pivot, the funding opportunities database made available to all Stony Brook investigators by the Office of the Vice President for Research (OVPR). While the subscription is a large investment for OVPR, it has proven to be well worth the cost. After a wide search, OVPR staff determined that Pivot was the most comprehensive funding opportunities database available because it includes state, federal, and private funding in the US as well as international opportunities for all research areas.

During the past two fiscal years, OPD has offered a quick and easy way for faculty to update their Pivot profiles. Faculty were asked to complete a short survey with information that would reflect their current research interests and areas of expertise. OPD then worked in collaboration with Pivot to complete the update.

Following the update, OPD held two short Pivot tutorial sessions to help users learn how to navigate the system more easily:

Pivot Snippet: How to Update Your Pivot Profile

Thursday, April 7, 2022 at 12-12:30pm

Pivot Snippet: How to Create a Funding Opportunity Search

Thursday, April 21, 2022 at 12-12:30 PM

OPD also continues to offer one-on-one and group Pivot training sessions for Stony Brook faculty and administrators by request.

In FY 21-22, the OPD website was updated to include embedded search results from Pivot. Now, Stony Brook investigators can visit our website at any time to find active lists of funding opportunities in the following priority research areas:

- Arts & Humanities
- COVID-19
- Instrumentation and Facilities
- Large Funding (\$5M+)
- Tiger Team Topic Areas (see page 10 for list)

INTERNATIONAL QUANTUM SUMMER SUMMIT

In August 2021, Stony Brook University hosted the International Quantum Summer Summit (IQSS). Over the course of five days, IQSS featured lectures from leading quantum experts including Stony Brook faculty, external researchers, and industry representatives on a range of topics from quantum computing to workforce development. OPD partnered with the School of Professional Development to coordinate the week-long event. Visit the [OVPR YouTube channel](#) to view videos of all IQSS talks.

RESEARCH DEVELOPMENT INITIATIVES

TIGER TEAMS

In anticipation of significant increases in funding for federal agencies, including NIH, NSF, DOE, and DOD, Stony Brook University established a number of “**Tiger Teams**” to help prepare faculty in advance of new funding opportunity announcements. The initial ten Tiger Teams focused on areas identified in the USICA bill, which would create a new directorate in the National Science Foundation. These Tiger Teams, each consisting of approximately four to six faculty, mapped our existing strengths to expected topics for new funding. Although much of the teams’ focus was on asset mapping and center-scale funding opportunities, the insights gained will benefit individual investigators and can also provide a roadmap for future investments in strategic areas. The effort was led jointly by the Office of the Vice President for Research and the Office of the Provost. Each team was assigned an OPD representative to provide administrative and logistical support.

Ten Tiger Teams were formed in FY 21-22. Each team had one or two faculty leads. In total, 57 faculty members were involved in the effort. Below are the ten topic areas:

- Artificial Intelligence, Machine Learning, Autonomy, and Related Advances
- High-Performance Computing, Semiconductors, Advanced Computer Hardware/Software
- Quantum Information Science and Technology
- Robotics, Automation, and Advanced Manufacturing
- Climate Change and Natural and Anthropogenic Disaster Prevention/Mitigation
- Advanced Communications Technology and Immersive Technology
- Biotechnology, Medical Technology, Genomics, and Synthetic Biology
- Advanced Energy, Industrial Efficiency Technologies Including Batteries, and Advanced Nuclear Technologies
- Data Storage, Data Management, Distributed Ledger Technologies, and Cybersecurity, Biometrics
- Advanced Materials Science, Including Composites and 2D Materials

Timeline

In total, the effort spanned five months. Below is a summary of notable timepoints.

- July 21, 2021:** Members Identified; Teams Formed
- July 29-30, 2021:** Charge Meetings via Zoom
- October 1, 2021:** Midpoint Meeting, Wang Center, Room 201
- November 15, 2021:** Final Reports Due
- December 7, 2021:** Breakfast with Tiger Team Leads, Connections
- December 21, 2021:** Final Report Presentations and Open Discussion via Zoom

OPD representatives provided support through the following:

- Coordinating all team meetings
- Taking notes and disseminating information to team members
- Processing requests for data
- Creating searches for relevant funding opportunities
- Creating searches for potential research collaborators
- Sending out surveys and other communications to the campus community on behalf of each team
- Organizing focus groups
- Organizing virtual and in-person research presentations
- Keeping the team leads informed and on track with the OVPR and Provost’s Office expectations
- Planning mid-point and final report presentation meetings
- Organizing separate Town Hall meetings for each team with an open invitation to the entire campus community. Between March 1, 2022 and April 6, 2022, OPD hosted a campus-wide Town Hall meeting for each of the ten Tiger Teams.

Upcoming Year

In FY 22-23, OPD will provide the same support to the eight new Biomedical Tiger Teams, focusing on life and health sciences:

- Brain, Behavior, Neurodegenerative and Neuropsychiatric Disorders
- Cancer
- Drug Development, from Chemistry to Diagnostics and Therapies
- Development, Aging and Life Span
- Environmental Health, Climate Change and Human Health
- Immunology and Infectious Diseases
- Metabolism, Obesity, Diabetes and Cardiovascular Disorders
- Technology, Computation, Biology, Medicine and Regenerative Medicine

RESEARCH DEVELOPMENT INITIATIVES

CAMPUS OUTREACH

OPD has continued our campus outreach this past fiscal year by maintaining our main communication channels, as well as expanding into others:

OPD Weekly Newsletter

OPD continues to send out the OPD Weekly Newsletter every Friday, which includes a list of active limited competition opportunities, noteworthy funding opportunities, upcoming internal and external workshops, and other important announcements and research news. The newsletter allows us to share more information with the SBU research community on a regular basis.

To receive the OPD Weekly Newsletter directly, please visit our [website](#) and follow the instructions to join our Google Group.

Social Media

Twitter: OPD launched the new 'Stony Brook Research' Twitter account (@SBUResearch) in April 2022. The account represents all of the units of the Office of the Vice President for Research (OVPR), and is a platform used to share Stony Brook research news and development opportunities, such as workshops, limited competitions, and OVPR Seed Grant Program announcements. Bite-sized pieces of information reach the SBU research community in a manageable and engaging way. Our goal is to broaden our reach to allow more faculty members to utilize resources provided by OVPR.

YouTube: OPD continues to manage the 'Stony Brook Research' YouTube account. Updates have been made over the past fiscal year, such as updating the logo to match the new Twitter account, creating playlists, updating the video titles, and adding descriptions to the videos.

Orientation Video

OPD created an orientation video, designed to provide faculty with a brief introduction to our services. The video is the first in a series that will be released to introduce all OVPR units to new faculty. We anticipate that the OPD orientation video will be available on our website during the Fall 2022 semester.

INVESTMENTS IN OPD PERSONNEL

Through the Strategic Budget Initiative, OPD was given four lines to support proposals for development activities. This investment in personnel was made to enable OPD to meet the increasing campus demand for its comprehensive proposal development services, particularly for large, highly complex proposals with high administrative burden. Being able to meet the campus demand for these services ensures that PIs have the support they need to submit the most competitive proposals possible, thus increasing opportunities to increase research funding at Stony Brook University. In this past fiscal year, all four positions have been filled. Given the start dates, training is still in progress for these new members of the team as they learn processes and procedures specific to Stony Brook University, further develop their expertise, and hone their skills in providing support for large and complex proposals.

STAFF LISTING:

- Nina Maung-Gaona, PhD, Associate Vice President for Research
- Sheri Clark, PhD, Assistant Director
- Mandy Frantz, Research Development Specialist
- Karrie Gash, Research Development Coordinator
- Donna Scala, Research Development Coordinator
- Julianna Carbone, Proposal Development Specialist
- Kai Sherman, Proposal Development Specialist
- Cristina Felton, Proposal Development Coordinator
- Kelly Hills-Muckey, PhD, Proposal Development Coordinator
- Aveary Menze, Proposal Development Coordinator
- Nancy Puchner, PhD, Proposal Development Coordinator
- Richard Tomczak, PhD, Proposal Development Coordinator*
- Ryan Clemons, Proposal Assistant

**As of May 2022, Richard is now the Director of Faculty Engagement in the Division of Undergraduate Education at Stony Brook University*



Stony Brook Research