

2023-2024 Research Report to UKRF Board of Directors

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Vice President for Research

The UKRF Budget

- Facilities and administrative (F&A) costs from external grants and contracts support the UKRF budget.
- These are costs that the university has incurred because of the research within a given grant or contract which took place at UK, and for which the government reimburses UK.
- We follow federal guidelines to negotiate these costs every 3 years with the federal government. We have submitted (February 2023) our request for the next F&A rate for UK and are in negotiations with the government.
- Our current F&A rate is 53%, meaning for each \$1 that comes to the institution for specific research within a grant the institution receives an additional \$0.53. Not all expenditures on grants and contracts accrue F&A, our actual rate last year was approximately \$0.19/\$1 in direct costs.

Update on Research Progress Across UK

These are the accomplishments of our leaders (President, Provost, Deans, Associate Deans for Research, Chairs) and the Faculty, Staff and Students Doing and Supporting Research.

Our role is to provide the infrastructure and support for the research to be developed, submitted and received in the form of grants and contracts, and that the research is performed in an ethical and compliant manner.

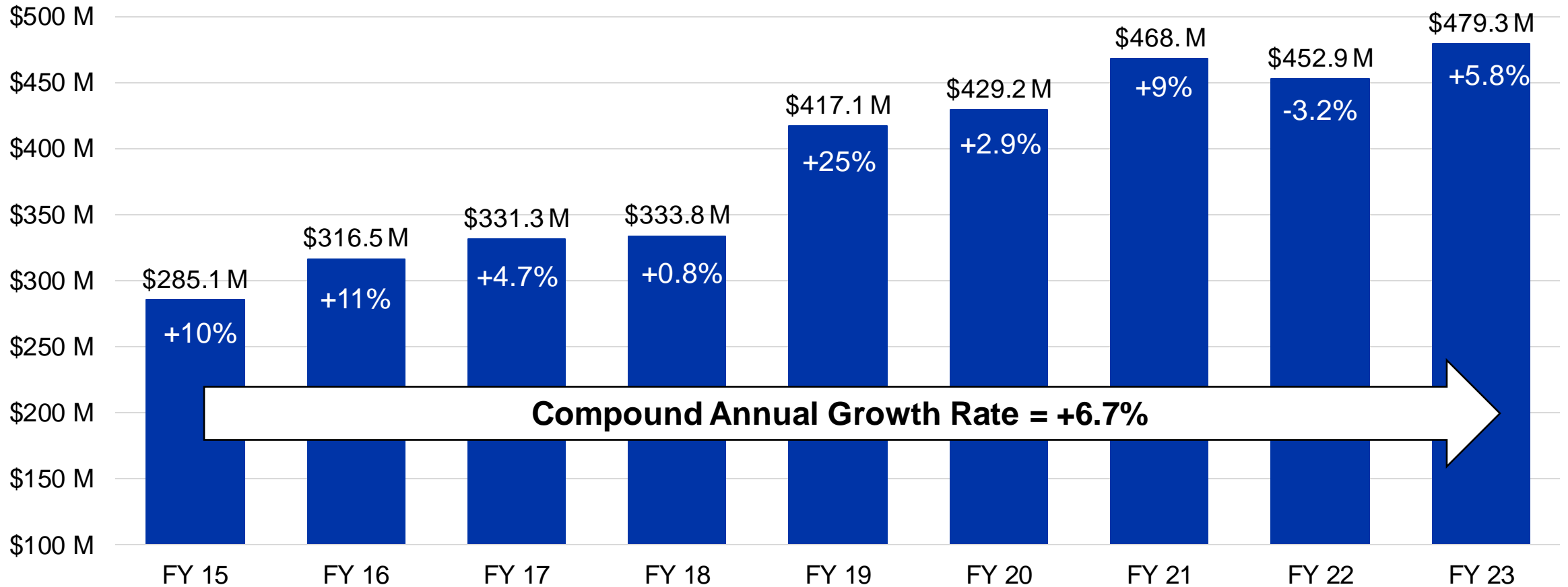
UK Awarded Grants and Contracts

FY23

Progressive Growth in UK External Grant and Contract Awards

UK Awarded Grants and Contracts

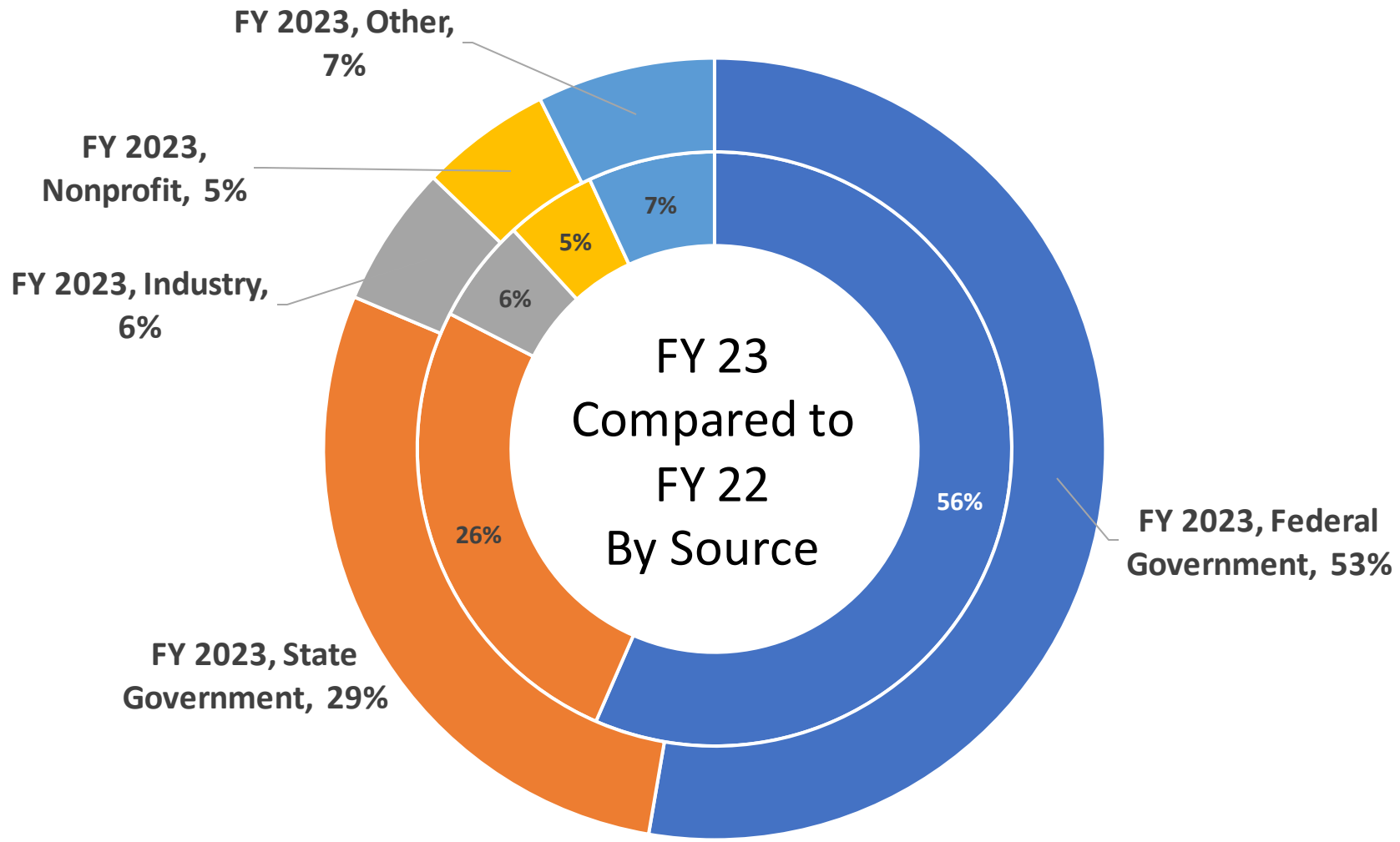
68% Growth
FY 15 – FY 23



Source: University of Kentucky, Office of Sponsored Projects Administration Database

UK Awarded Grants and Contracts by Source

Federal funding is the largest source of support



Source: University of Kentucky, Office of Sponsored Projects Administration Database

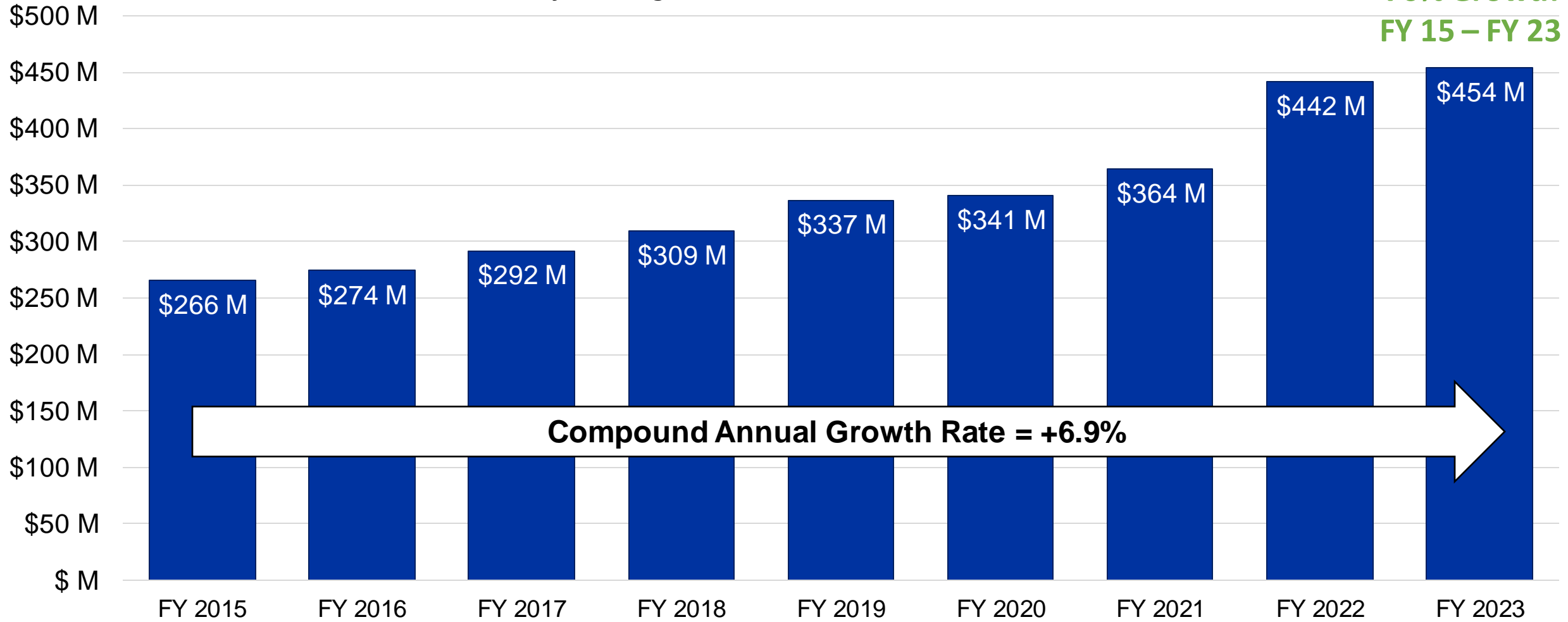
UK R&D Expenditures

FY23

Progressive Growth in UK R&D Expenditures

Excludes CARES Act COVID-19 Relief Funding

**70% Growth
FY 15 – FY 23**

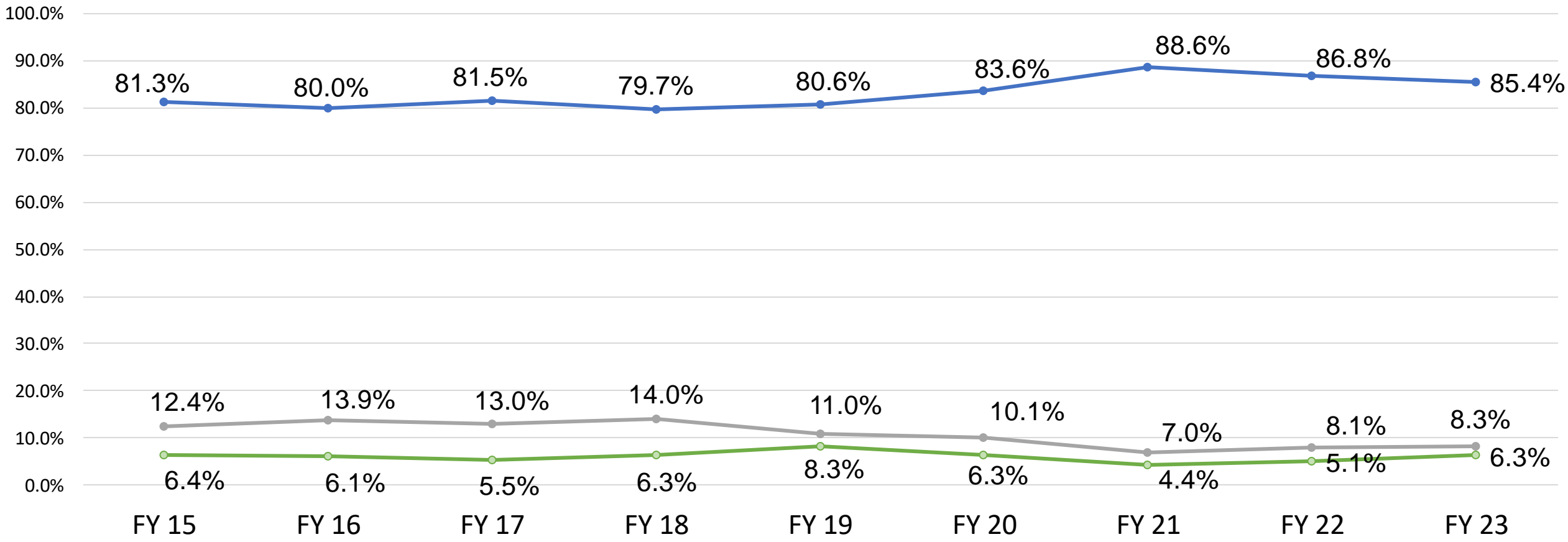


Source: University of Kentucky OSPA database, 06/30/2023

Federal R&D expenditures are the Largest Source for UK Researchers

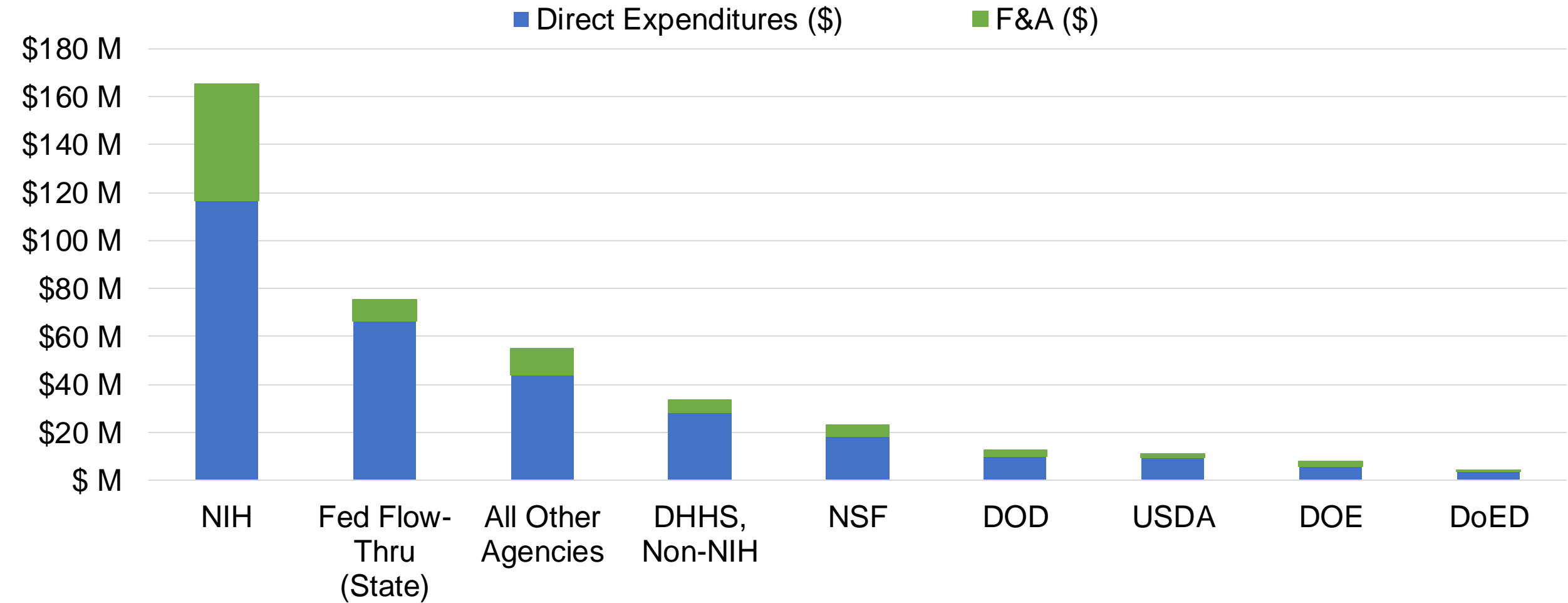
R&D Expenditures by Source of Funds

— Federal — State — Other



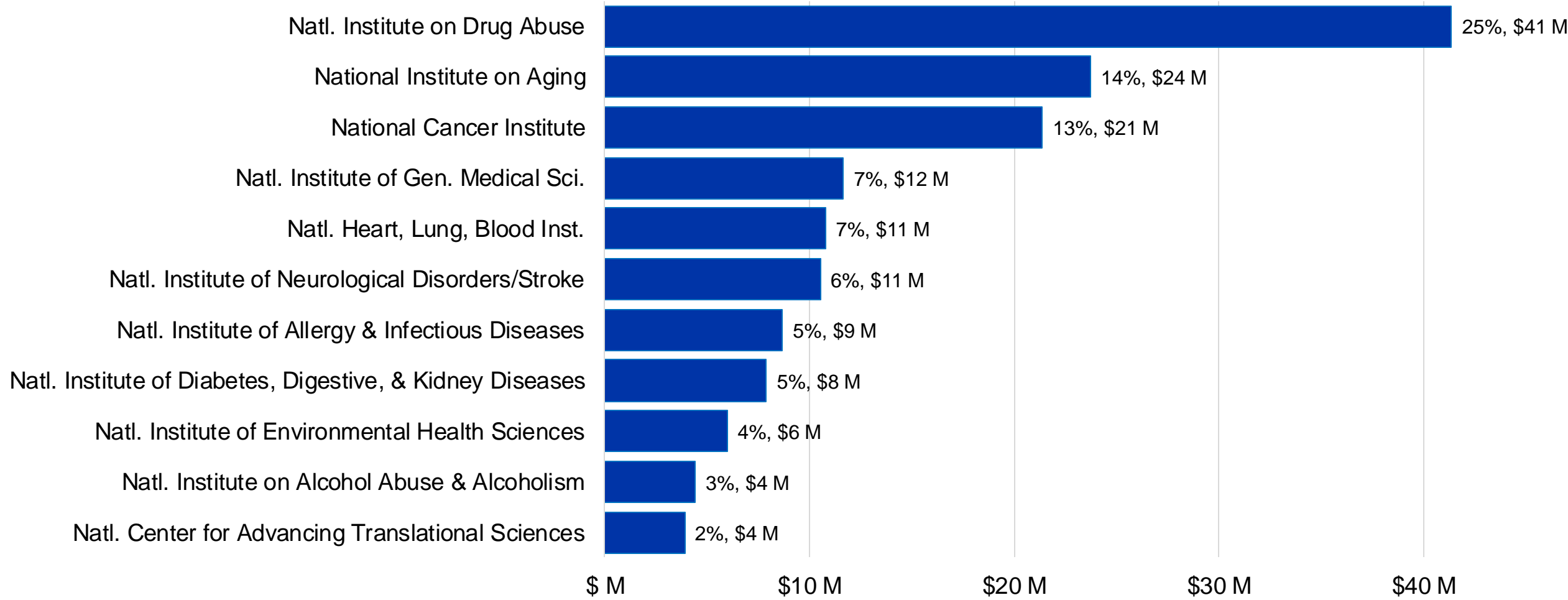
Source: University of Kentucky, OSPA database.

National Institutes of Health (NIH) is the largest source of federal R&D expenditures by UK researchers (FY23)



Source: University of Kentucky, OSPA database.

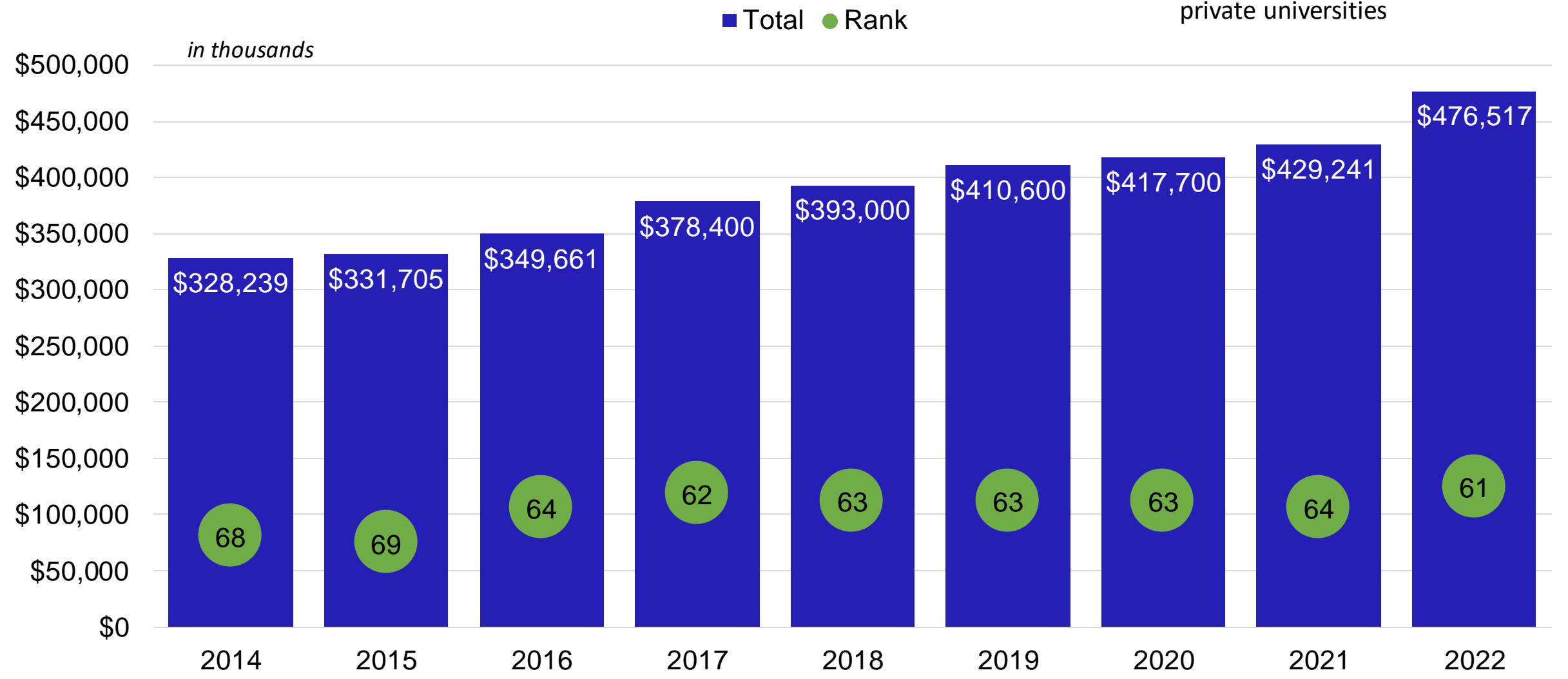
UK R&D Expenditures by NIH Institute FY23



Source: University of Kentucky, OSPA Database

UK National Rankings: NSF Higher Education R&D Expenditure Survey

FY14 to FY22 Growth
 +45% Percent Change
 +5% Compound Annual Growth Rate
 Ranking is top 10% among public and private universities



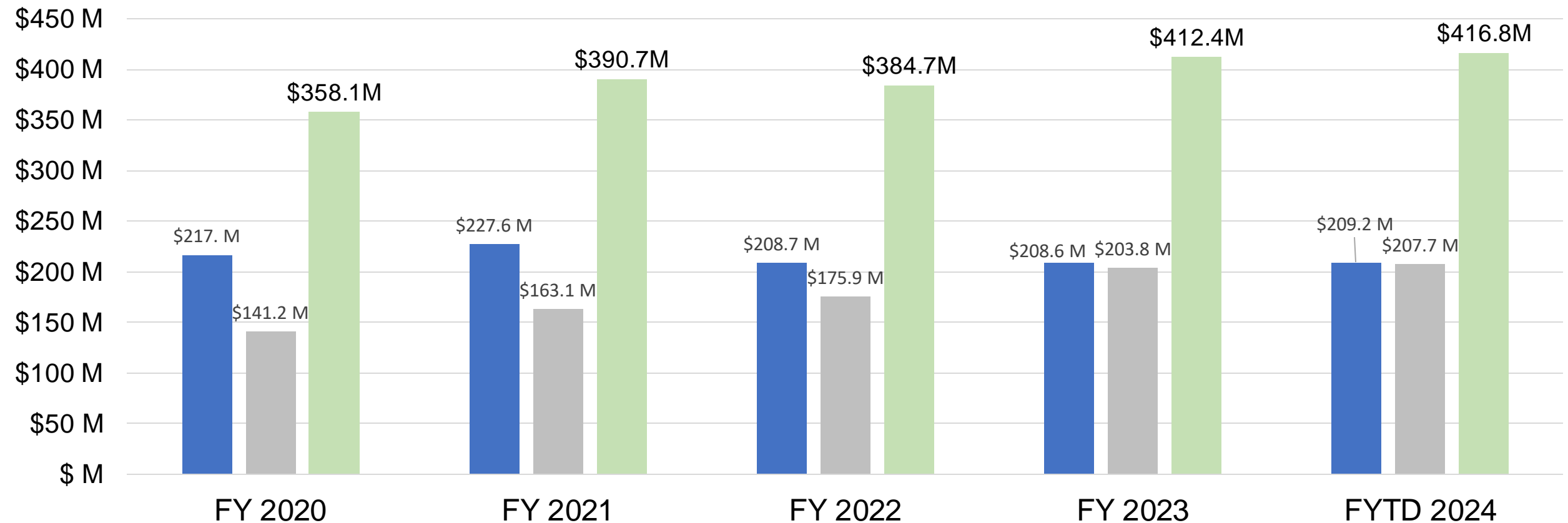
UK Grant Award Progress Year-to-Date FY24

UK Grant Awards thus far in FY24

July 1 – April 30 of Each Year

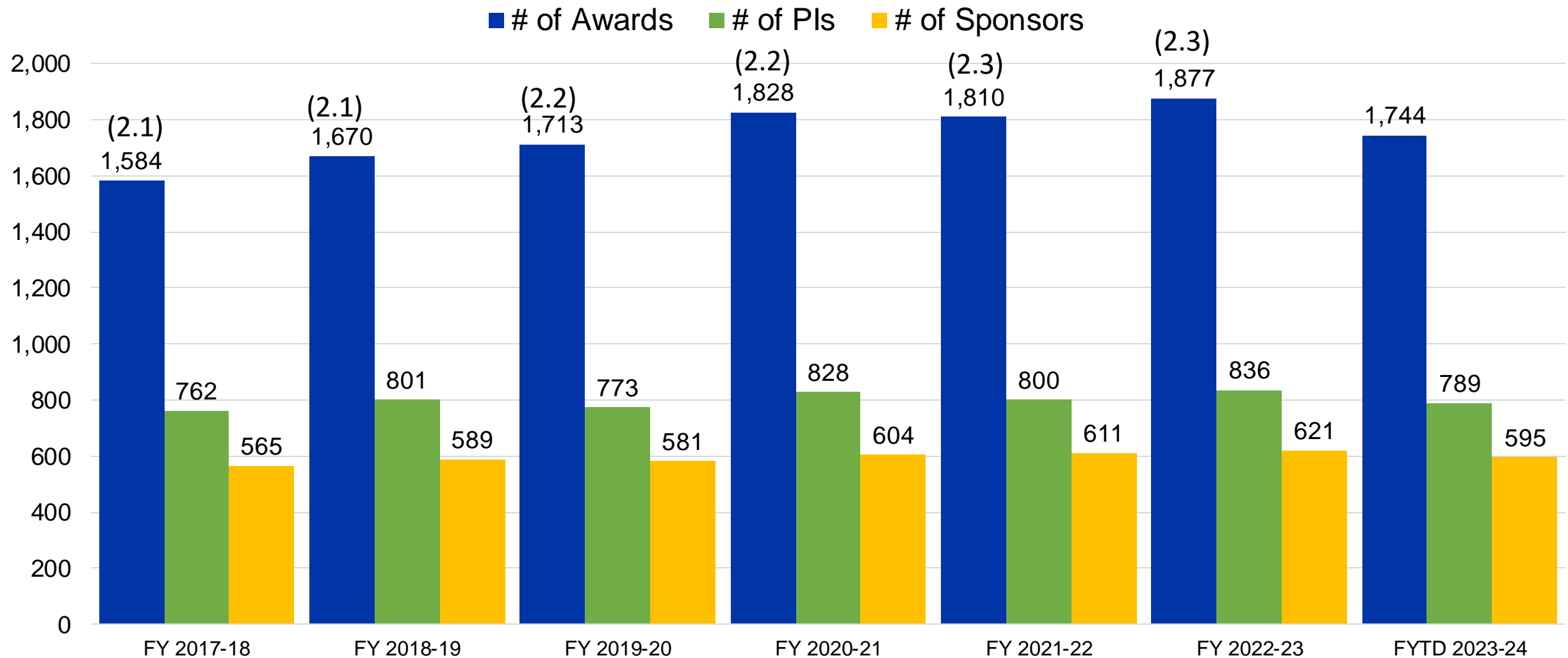
■ Federal ■ Non-Federal ■ Total

+1.1% ↑



Source: University of Kentucky, OSPA database.

Grant Awards/PI: More productivity and success by UK researchers



Source: University of Kentucky, OSPA Database; Number in parentheses is # of awards/# of PIs

A Select View of New Grant Awards in FY24

- Appalachian Tobacco Regulatory Science Team (AppalTRuST), NIDA, \$3.9M, PI: Seth Himelhoch, College of Medicine
- C4Ward@Scale: Scaled-Up Coal Conversion for Carbon Fibers and Graphite, DOE, \$3.0M, PI: Rodney Andrews, CAER
- Biomarkers to Track Effective Interventions that Delay Dementia Onset in Participants of the “Risk Reduction for Alzheimer’s Disease” Trial, NIA, \$2.3M, PI: Anne Stowe, College of Medicine
- Understanding the Association Between Sublingual Buprenorphine and Oral Health Outcomes, NIDC, \$1.4M, PI; Marcia Rojas, Douglas Oyler, College of Dentistry, Pharmacy
- Revealing the Influence of Electrolyte Solvents and Ions on Electronic and Ionic Transport in Electrochemically Doped Conjugated Polymers, NSF, \$767K, PI: Kenneth Graham, A&S
- The Serotonergic System in Periaortic Fat Regulates Regional Aortopathy Development, NHLBI, \$595K, PI: Lisa Cassis, College of Medicine
- Improving the Spatial and Spectral Calibration of Remote Sensing Imagery from Unmanned Aircraft Systems, NIFA, \$612K, PI: Michael Sama, CAFE
- The Digital Restoration of Herculaneum Papyri: Data Post-Processing, Andrew Mellon Foundation, \$400K, PI; Brent Seales, College of Engineering
- Climate Resilience through Multidisciplinary Big Data Learning, Prediction & Building Response Systems (CLIMBS), NSF EPSCoR Track 1, \$20M, PIs: Rodney Andrews, Micheal McGlue, Sebastian Bryson and Edward Woolery

UK PURPOSE, Research and the UKRF Budget

Following our Strategic Plan

Putting Students First: Support for the Graduate School and Students

The Office of Undergraduate Research

Putting Students First: Support of graduate student training

FY24 RA Tuition Differentials by College

Ag, Food & Environment	\$1,377,571
Arts & Sciences	\$692,035
Business & Economics	\$21,129
Communication & Information	\$22,308
Education	\$200,732
Engineering	\$1,459,253
Fine Arts	\$21,129
Martin School	\$173,738
Health Sciences	\$61,047
Medicine	\$1,352,369
Nursing	\$86,873
Pharmacy	\$226,578
Public Health	\$145,807
Social Work	\$31,694
Non-Academic Units	\$98,612
GANN / NRT grants	\$49,299
Total	\$6,020,173

- Research Assistants (RAs) are an important part of our research workforce, and the future of research within our disciplines. Most RAs are supported from external grants and contracts with the Principal Investigators or co-investigators as their mentors.
- The university's policy is that grants that support a RA must cover the Universal Tuition Rate, which is the in-state tuition. The out-of-state tuition is covered by a Tuition Scholarship.
- In FY24, OVPR created an account in UKRF to which the Graduate School would charge the out-of-state tuition costs for RAs. The \$6.02M provided within the UKRF budget supported tuition differentials for more than 500 graduate students.
- UKRF also supports a postdoctoral program for those under-represented in their field of study: \$300,000
- UKRF provides TA support: \$451,000
- The FY24 UKRF budget request is \$6.098M for tuition differential, total funds of \$6.849M for graduate school-related activities

Putting Students First: Support of Undergraduate Student Researchers

Office of Undergraduate Research (OUR): Chad Risko, Faculty Director

- Supported **171*** 2023-24 academic year undergraduate fellowships for research and travel
 - * *data still being gathered*
 - 30 First-generation students awarded
 - 64 Honors students awarded
 - 16 Parker Scholars awarded
 - 101 Faculty across 15 colleges participated
- Hosted **97** events, including **8** information sessions, **15** workshops, **29** tabling events, **7** drop-in peer advising events, and **17** student organization/class presentations
- Organized and managed the annual 18th Annual Showcase of Undergraduate Scholars: **373** presentations by **459** students, and recognition of **5** Outstanding Faculty Research Mentors
- Organized **59** presentations by undergrad researchers at national undergrad research conferences
- Led **26** OUR Undergraduate Research Ambassadors who gave **989** service hours, **97** outreach events
- Managed undergraduate research fellowship programs: **2** Beckman Scholars, **20** Commonwealth Undergrad Research Experience (CURE) Fellows, **5** UK Sustainability Fellows
- Expanded use of ForagerOne software platform for students to seek out mentors: **1261** students and **236** faculty engaged

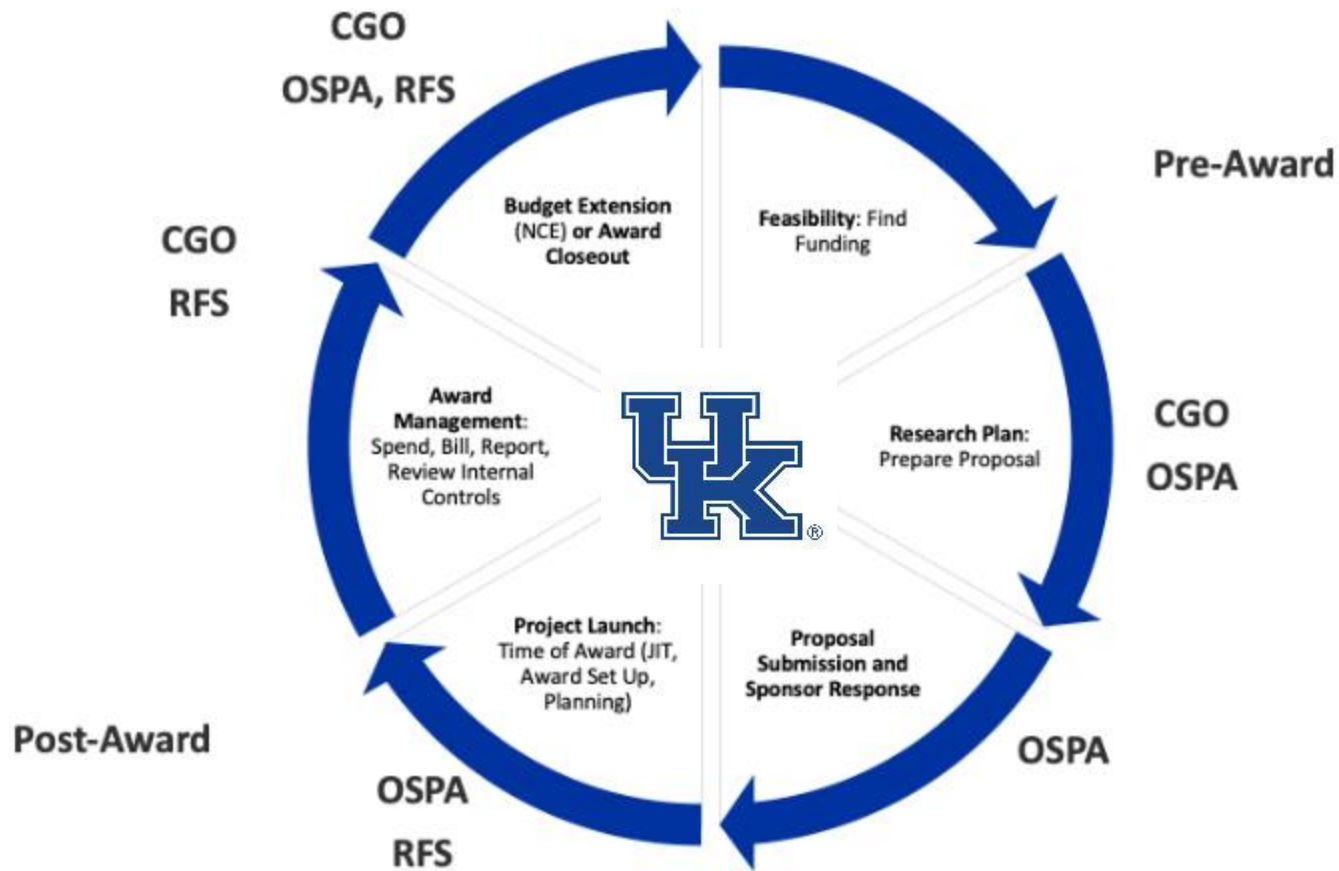
UK PURPOSE, Research and the UKRF Budget

Following our Strategic Plan

Taking Care of our People: Completion of Project GATeWAY
Research Leadership Academy Complex Grant and Leadership
Development

UK Project GATeWAY: The Case for Change: A Grant Life Cycle

The current structure and processes require seamless and constant coordination across offices and campus.



COORDINATION ACROSS CAMPUS

The UK sponsored programs lifecycle spans both pre- and post-award processes and includes research administration support from central [Office of Sponsored Projects Administration (OSPA) and Research Financial Services (RFS)], and College Grant Officers (CGOs).

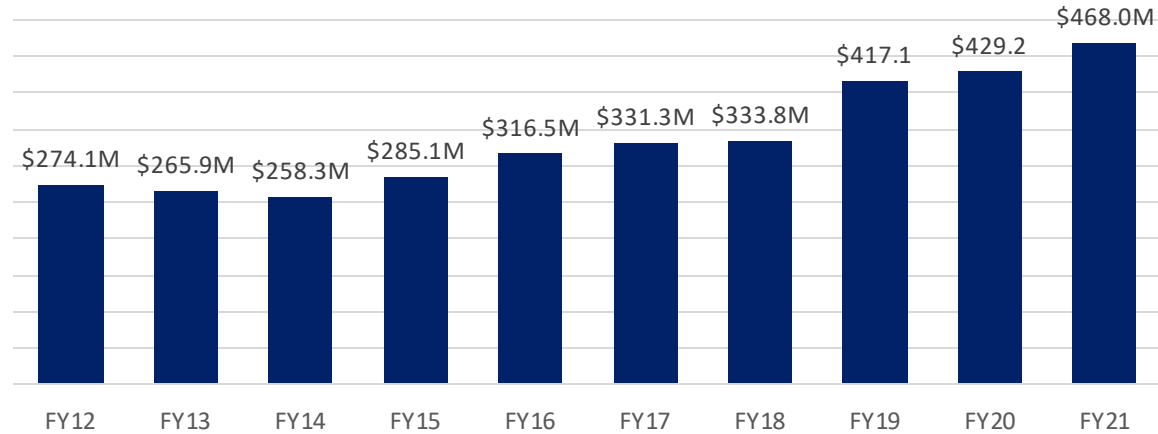
Throughout the lifecycle of a grant, the process must be efficient, effective, compliant and seamless.

UK Project GATeWAY: The Case for Change: Growth in Grants and Contracts

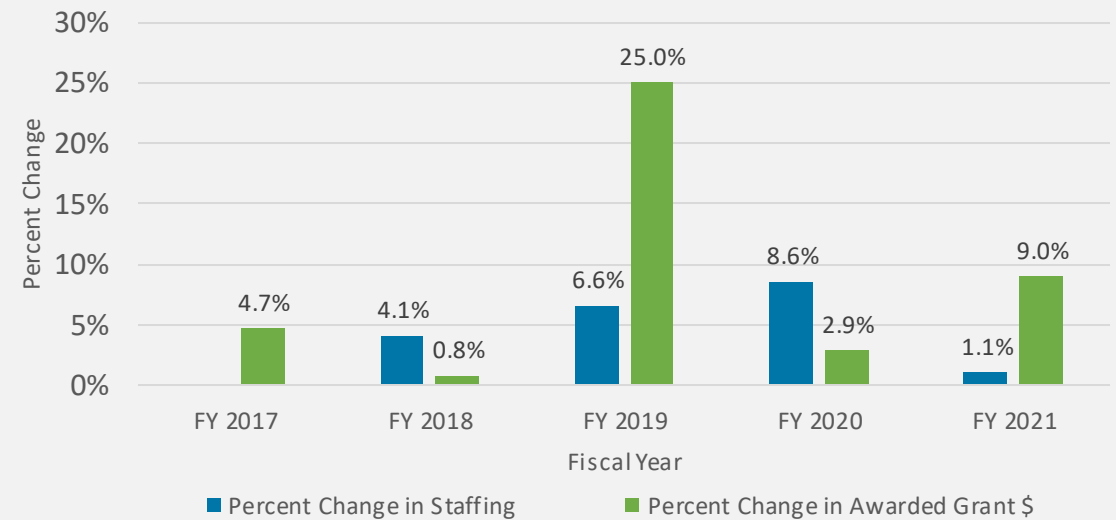
Over the last decade, UK has nearly doubled its sponsored research which continues to grow. However, staff growth has not kept apace with growth in grants and contracts.

UNEVEN GROWTH

Total Awards (\$M) FY12 – FY21



Staff Growth vs Awarded Money Growth



1,828

Awards

828

Principal Investigators

20

Sponsors

Recipient of the “trifecta of National Institutes of Health Funding”

As the institution continues to grow its research portfolio, so must the number of staff who touch every part of a grant lifecycle.

Background: We spent a year assessing ourselves against benchmarks

Given recent growth in sponsored research over the last decade, UK worked with external consultants to conduct a comprehensive assessment of its research administration functions to improve operations and service to faculty.

Assessment included the following in-scope areas for research administration operations and functions at UK:



The goal of this assessment was to provide recommendations that enable to UK to:

1

Drive efficiencies and return on investment

2

Improve administrative operations

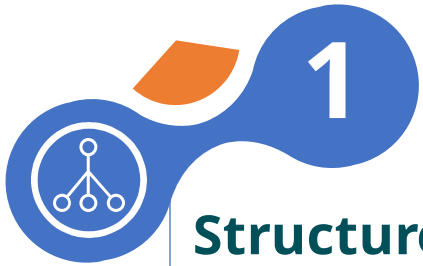
3

Improve overall service delivery

4

Foster trust and relationships with faculty

The Assessment led to Three Prioritized Recommendations that Align with UK PURPOSE



Structure

Develop an organizational structure with new job architectures, business processes, appropriate staffing and compensation levels which support growth while providing pathways for career advancement.

Recommendations

- Realign central research administration functions and responsibilities
- Implement a formal job architecture for all key research administration positions
- Reevaluate staffing levels across research administration functions
- Implement highlighted business process improvements



Collaboratives

Create a collaborative shared service model for local grants administration, using successful grants administration structures developed in large colleges as a roadmap, including the development of a funding strategy.

Recommendations

- Reimagine local research administration support to improve areas such as:
 - Standardization of services
 - Support to allow for research growth across UK
 - Career growth and progression
 - Interactions with central units
 - Resourcing transparency



Technology

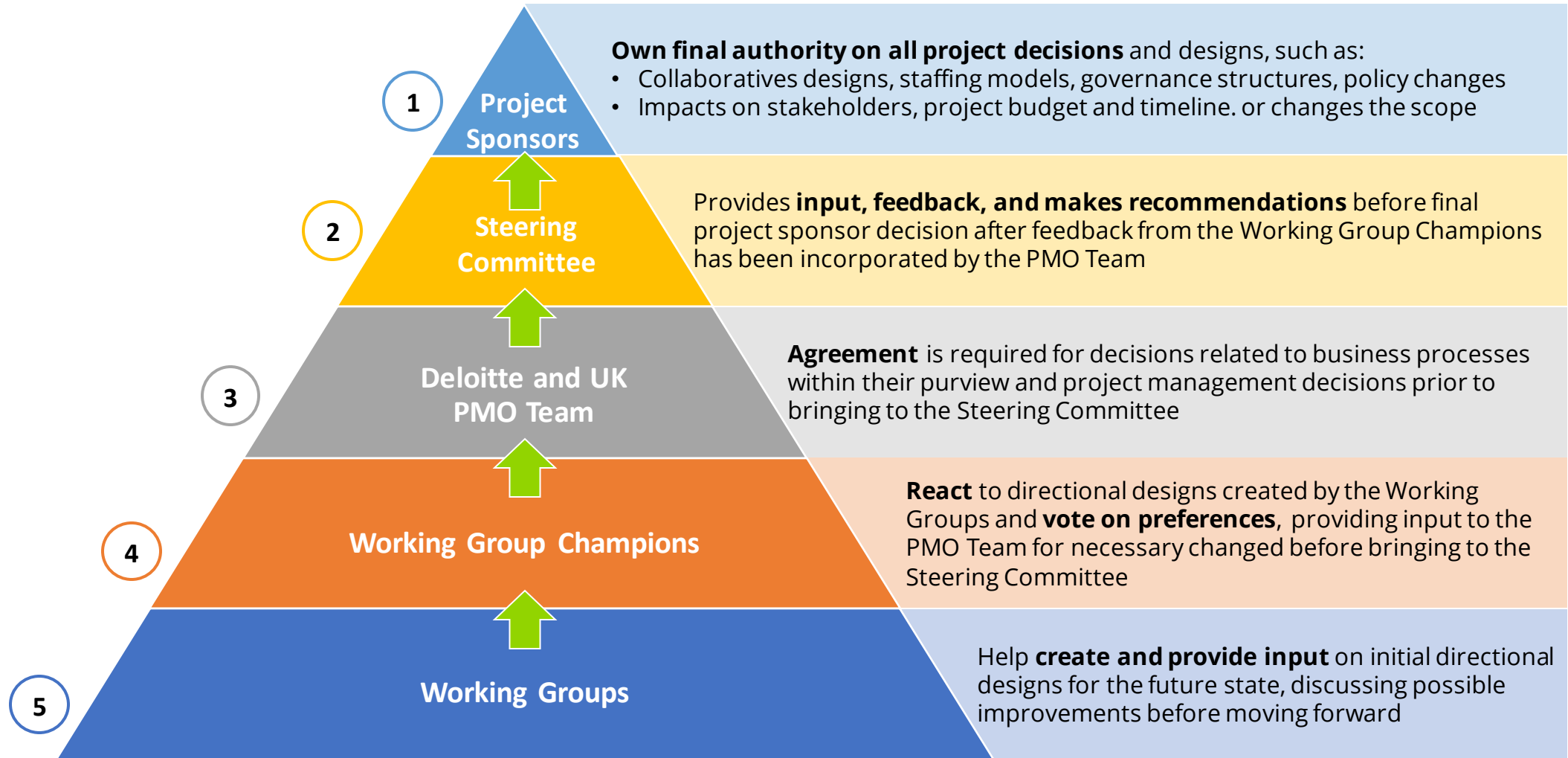
Prepare and implement a research technology and systems roadmap for research administration while looking for opportunities to explore Robotic Process Automation (RPA) enhancements.

Recommendations

- Prepare and implement a research technology and systems roadmap
- Explore Robotic Process Automation (RPA) opportunities in process areas such as account setup

Project GATeWAY Governance Structure

Throughout the Design Phase and moving into the Build & Test Phase, decision-making was escalated to different levels of the governance structure based on the framework below.



Next Step: We used our Shared Governance Structure to define Project GATeWAY Vision and Guiding Principles



Vision

Handle the business of research so PIs can focus on the research

People

Create and **foster balance and career progression** for all grants administration staff

Teamwork built on **respect, civility** and **integrity** for all members of UK

Enhance the highest levels of **holistic wellness** by **taking care of our people**

Process

Provide equal or improved services that have **flexibility and customization** for the uniqueness of a given unit

Streamline and **standardize** processes to provide a **consistent level of service** while **staying compliant**

Ensure that **staff know how and why** they do things critical to the support of faculty

Technology

Maximize use of existing and new technologies to **establish single source of truth** that instills **confidence in the data**

Establish systems that are sustainable through growth while **investing in user-friendly technologies**

Leverage technologies that **increase administrative efficiencies** and **reporting capabilities**

Project GATeWAY Opportunity 1, Structure: Office of Sponsored Projects Administration (OSPA) Reorganization

The cornerstones of OSPA's services and support are 1) Proposal and Award Services, 2) Contracts/Subawards and Research Compliance, and Research Compliance, and 3) Institutional Compliance and Training.

New Organizational Framework	Upcoming New Resources and Services
<ul style="list-style-type: none"> ✓ Revised structure to more closely aligns with Collaborative Grant Services (CGS) to provide a clear path of grant administration support for investigators ✓ Focused proposal and award work assignments to leverage staff expertise and streamline response and service times ✓ Integration of grant administration and compliance training for research administrators across campus ✓ Addition of staff to strengthen OSPA's support of sponsored projects 	<ul style="list-style-type: none"> ✓ Create OSPA services catalogue as resource for stakeholders ✓ Develop service level agreements with colleges/units ✓ Revise existing and/or develop new SOPs that align with process flow of proposals from CGS and reflect pre/post award staff assignments ✓ Design a contract tracking portal to enhance transparency for investigators regarding the status of contract negotiations ✓ Execute a training curriculum that aligns with or surpasses industry standards

- Resulted in 7 upgraded existing positions, support of 6 new OSPA positions within the FY24/25 UKRF budget

Project GATeWAY Opportunity 1, Structure: Research Financial Services Reorganization

RFS oversees the financial reporting and compliance requirements of all externally sponsored projects. The primary goal is to facilitate the management of funds provided to the university, in compliance with specific regulations and guidelines and prepare institutional reporting for external entities beyond sponsoring agencies (e.g. HERD/NSF, SEFA, NIH, DHHS, CAS).

RFS's services and support are 1) Monitor compliance with federal, state, and UK policies, as well as sponsors terms and conditions 2) Prepare complex data analytics 3) Provide post-award fiscal compliance training to the University 4) Work with all research administration units and colleges to enhance internal controls 5) Liaise with OSPA Training to incorporate post-award knowledge into training program development.

New Organizational Framework

- ✓ Integration of post-award grant administration and compliance for research administration at the enterprise level
- ✓ Enhanced Award Closeout Team within Research Financial Services (RFS)
- ✓ Enhanced post-award fiscal compliance function
- ✓ Revised structure to more closely align with OSPA and CGS to provide post-award grant administration support for investigators
- ✓ Manage work assignments to leverage staff expertise to streamline response and service times
- ✓ Added financial administration staff to support compliance and close-out teams for sponsored projects.
- ✓ Provide accurate real-time invoicing, reporting and financial guidance

Upcoming New Resources and Services

- ✓ Partner with VPR's office in developing and monitoring capacity model to ensure support for planned growth in grant awards
- ✓ Establish formal service level agreements in partnership with OSPA and CGS research administration support units
- ✓ Update existing and/or develop new SOPs to align with process flow of proposals from OSPA and CGS
- ✓ Participate in development of technology enhancements

Resulted in support of one new RFS position within the FY25 budget.

Opportunity #2: Collaboratives for Grants Services (CGS) Development

6 Easy Steps

The conceptual Collaboratives model was defined during the Design Phase, including the finalization of service offerings and college hub groupings for the model, following the approach below.

Vision & Guiding Principles

Finalized the vision and guiding principles for Collaboratives across people, process and technology as the foundation of the initiative

Vision: Monitor the business of research to focus on the research.

People: Create and foster balance and career progression for all grants administration staff; Teamwork built on respect, quality and integrity for all members of UK; Enhance the highest levels of holistic wellness by taking care of our people.

Process: Provide equal or improved services that have flexibility and customization for the complexity of a given unit; Streamline and standardize processes to provide consistent level of service while staying compliant; Ensure that staff know how and why they do things critical to the support of faculty.

Technology: Maximize use of existing and new technologies to establish single source of truth that builds confidence in the data; Establish systems that are sustainable through growth while investing in user-friendly technologies; Leverage technologies that increase administrative efficiencies and reporting capabilities.

1

Services in Collaboratives

Aligned on the type of services moving into Collaboratives across pre- and post-award as well as those staying at the college level

Develop Sponsored Project Proposal (Part 1)

Task	Collaboratives	Colleges
Assist in the pre-proposal or CO process for sponsors that require pre-application submission prior to full proposal	•	•
Prepare monthly list of upcoming proposals to OSPA	•	•
Provide checklist of sponsor requirements based on guidelines for proposal submission	•	•
Create timeline to keep faculty member on track for sponsor deadline	•	•

Develop Sponsored Project Proposal (Part 2)

Task	Collaboratives	Colleges
Complete and aid in the development of the administrative components of a proposal, including RFA letters, cost share agreements, and sample determinations	•	•
Determine budget and budget justification for proposal with guidance from the PI and collaborate with other administrators to obtain salary and other required costing information	•	•
Coordinate with any subrecipients to develop and obtain budgetary and administrative documents	•	•
Complete all required documents and ensure compliance with institutional and sponsor-specific policies	•	•

2

College Groupings in Hubs

Aligned on the number of Collaboratives hubs and which colleges will be in grouped into each of these hubs

Grouped by Affinity:

- Hub 1: College of Agriculture, Food, and Environment; College of Arts and Sciences; College of Engineering; CBIs reporting to the VPR; College of Business and Economics; College of Communication & Information; College of Design; College of Fine Arts; College of Education; College of Law; College of Social Work; The Honors College; The Graduate School; Libraries; Other academic and non-academic units.
- Hub 2: College of Medicine; College of Dentistry; College of Health Sciences; College of Nursing; College of Pharmacy; College of Public Health.

Complex Grants: Dedicated hub that spans across Collaboratives for complex grants.

3

Unit Profiles

Gathered and analyzed relevant metrics to evaluate the size and complexity of each college to inform the future state design of Collaboratives

DESCRIPTION:

- For more than 130 years, CAPE faculty have provided research results to farmers and residents. Their researchers address challenges with agribusiness, consumers, food processing, nutrition, community development, soil and water resources, the environment and international trade. From traditional labs and research farms to high-tech diagnostic and research centers, they offer a science-based, practical solutions that impact the everyday lives of Kentuckians and people around the world.

STATISTICS

	FY22	3 Year Avg	FY23	3 Year Avg	FY24	3 Year Avg		
# of Academic Depts.	14	-	# of Research Admin. Staff (avg effort in research)	3	-	# of Collaboratives	64	65
# of Research Centers/Institutes	12	-	# of Proposal Submissions	357	352	# of Active IBTs	2	-
# of Research Faculty*	258	273	# of Awarded Contracts & Grants	244	240	# of Complex Grant Awards	-	1.5
# of Regular/Research Titles	151	162	# of Active Projects	352	-	Complex Grant Awards	-	\$1.8M
# of Research Admin. Staff (p=10% effort in research)	3	-	# of Active PI's**	149	-	# of Sponsors	100	96
			# of Subawards	23	-	Research and Development (R&D) Expenditures	\$43.5M	\$41.1M

4

Portability Matrix

Documented the feasibility, complexity and adjacency for each service to outline the level of effort to move each process to the Collaboratives organization

Service	Feasibility			Complexity			Adjacency		
	High	Medium	Low	High	Medium	Low	High	Medium	Low
Proposal Development	Low	High	Medium	High	High	Medium	High	High	High
Proposal Submission	Low	High	Medium	High	High	Medium	High	High	High
Proposal Review	Low	High	Medium	High	High	Medium	High	High	High
Proposal Award	Low	High	Medium	High	High	Medium	High	High	High
Proposal Management	Low	High	Medium	High	High	Medium	High	High	High
Proposal Reporting	Low	High	Medium	High	High	Medium	High	High	High
Proposal Compliance	Low	High	Medium	High	High	Medium	High	High	High
Proposal Archiving	Low	High	Medium	High	High	Medium	High	High	High

5

Service Catalog

Created a catalog to detail the responsibilities of each stakeholder group for each service, including PIs, OSPA, RFS, college-level staff

Task	Responsible	Accountable	Consulted	Informed
Assist in the pre-proposal or CO process for sponsors that require pre-application submission prior to full proposal	Collaboratives	PI	OSPA	College Staff
Prepare monthly list of upcoming proposals to OSPA	Collaboratives	PI	OSPA	College Staff
Provide checklist of sponsor requirements based on guidelines for proposal submission	Collaboratives	PI	OSPA	College Staff
Create timeline to keep faculty member on track for sponsor deadline	Collaboratives	PI	OSPA	College Staff
Complete and aid in the development of the administrative components of a proposal, including RFA letters, cost share agreements, and sample determinations	Collaboratives	PI	OSPA	College Staff
Determine budget and budget justification for proposal with guidance from the PI and collaborate with other administrators to obtain salary and other required costing information	Collaboratives	PI	OSPA	College Staff
Coordinate with any subrecipients to develop and obtain budgetary and administrative documents	Collaboratives	PI	OSPA	College Staff
Complete all required documents and ensure compliance with institutional and sponsor-specific policies	Collaboratives	PI	OSPA	College Staff
Review a review of the final proposal prior to submission based on institutional policies and procedures	Collaboratives	PI	OSPA	College Staff

6

Our approach to Shared Services Within the CGS Catalog | The RACI Matrix

Responsible

Who is responsible for doing the actual work for the task.

Accountable

Who is accountable for the success of the task and is the decision-maker.

Consulted

Who needs to be consulted for details and additional info on requirements (subject matter expert).

Informed

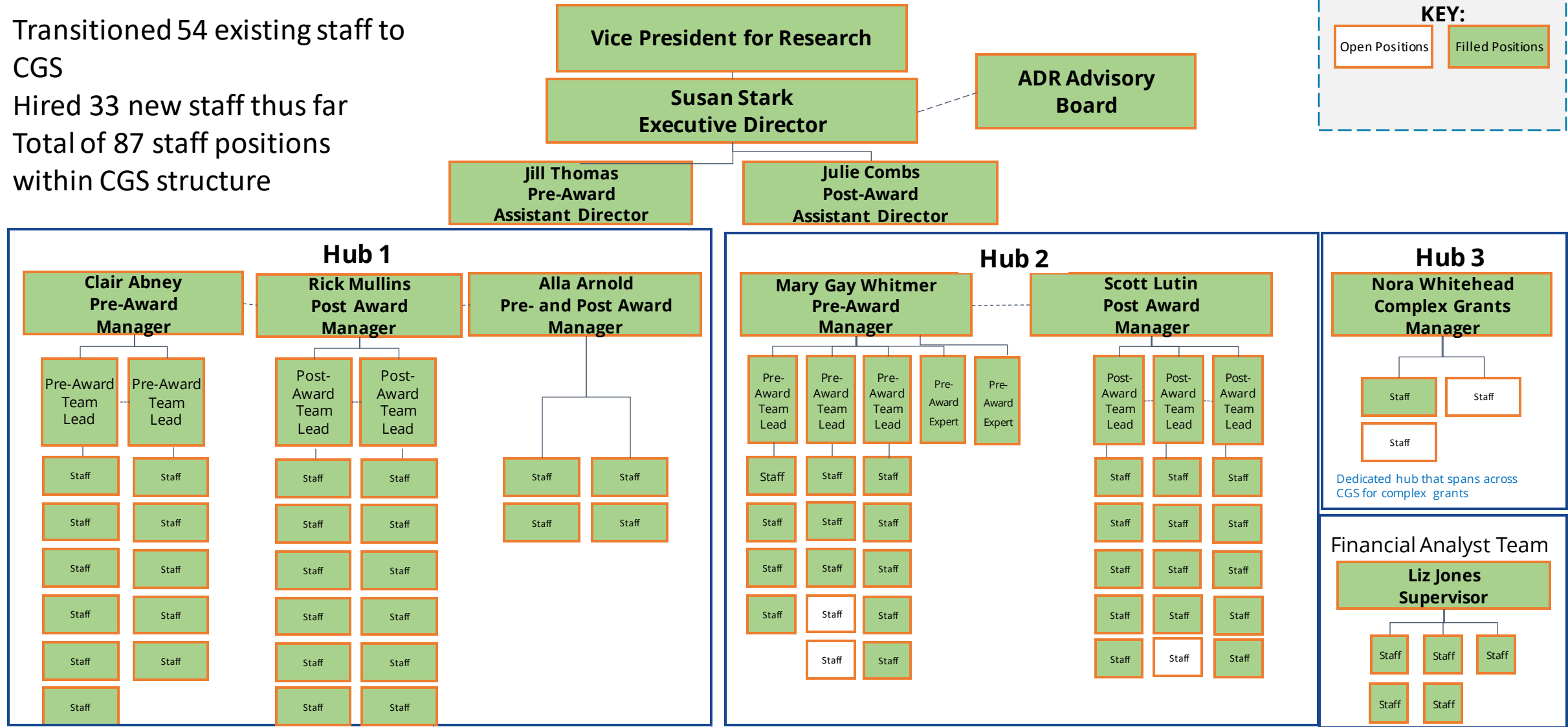
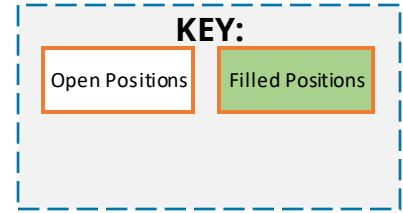
Who needs to be kept informed of major updates.

Example(s)

Task	<u>Responsible</u>	<u>Accountable</u>	<u>Consulted</u>	<u>Informed</u>
Assist in the pre-proposal or LOI process for sponsors that require pre-application submission prior to full proposal	Collaboratives	PI	OSPA	College Staff
Develop budget and budget justification for proposal with guidance from the PI and collaborate with other administrators to obtain salary and other required costing information	Collaboratives	PI	OSPA College Staff	College Staff
Compile all required documents and ensure compliance with institutional and sponsor-specific policies	Collaboratives	PI	OSPA	College Staff

Collaborative Grants Services (CGS) Org Chart

- Transitioned 54 existing staff to CGS
- Hired 33 new staff thus far
- Total of 87 staff positions within CGS structure



- College of Agriculture, Food, and Environment
- College of Engineering
- College of Arts and Sciences
- C&Is reporting to the VPR

- College of Business and Economics
- College of Communication & Information
- College of Design
- College of Fine Arts
- College of Education

- College of Law
- College of Social Work
- The Honors College
- The Graduate School
- Libraries
- Other academic and non-academic units

- College of Medicine
- College of Dentistry
- College of Health Sciences

- College of Nursing
- College of Pharmacy
- College of Public Health

To go live with CGS, we implemented a series of Training Sessions for each Hub and developed a Collaboratives Training Curriculum

UK's Research Administration Training Program:

UK provided training to prepare faculty and staff for the new operating model, as well as developed a foundational research administration training program that covers the fundamentals of research administration processes and polices to set up each research administration employee for success.

Workforce Transition Curriculum

Trainings to successfully prepare employees for their new roles and responsibilities.

Stakeholders	Delivery
OSPA & RFS	<ul style="list-style-type: none"> • 1-hour sessions • Two offered during the first go live • Record and post
PIs & Local College Staff	<ul style="list-style-type: none"> • 1-hour sessions • One or two offered for each go live • Record and post
Collaboratives Staff	<ul style="list-style-type: none"> • 90-minute sessions with sign ups • Two offered for each go live • Record and post

Continuing Education Curriculum

Trainings for employees in their new roles.

Three **2-hour sessions** that span the entire lifecycle that can be used to onboard future staff. These will be developed and conducted after the Workforce Transition Curriculum and will walk-through real-life situations for Collaboratives staff. This would include a separate session on:

- Proposal Development and Submission
- Handoff from Pre- to Post-Award; Account Setup
 - Execute Closeout and Reporting

Training: Project GATeWAY Investigator Resources

An Investigator Transition Document, Quick Reference Guide (QRG), Guidance for Responsibilities, and a Project Checklist with relevant UK stakeholders has been created to support the transition to working with the new CGS.

Transition Document

Reference guide for the CGS transition. A high-level confirmation of the key changes an investigator will see during the transition, and the expectation of them or the CGS.

Quick Reference Guide (QRG)

A high-level overview of the services provided to Investigators and the additional resources they have access to, to assist with the roles and responsibilities of the Investigator.

Guidance for Responsibilities

Outlines high level overview of Investigator and CGS Staff responsibilities and handoffs within the award lifecycle

Project Lifecycle Checklist

Provides step by step checklist on tasks required of the Investigator throughout the sponsored project lifecycle

Research Principal Investigator Quick Reference Guide

Principal Investigator/Collaborative Grant Services Transition Guide

The purpose of this document is to outline the key transitional changes that Principal Investigators (PIs) will encounter with the new Collaborative Grant Services (CGS). The goal of CGS is to provide additional services to allow PIs to focus on more scientific components and have appropriate support in research administration services. They should be your first stop for any research or grant related items.

Pre-Award

- Inform your Collaborative Grant Specialist of Funding Opportunities via the **Proposal Initiation Form**
- Your Collaborative Pre-Award Grant Specialist will build and provide you a timeline and checklist of sponsor requirements to help guide the proposal process, including the collection and submission of required documents
- Standardized budget templates will be used by the Collaborative Pre-Award Grant Specialist while they assist you with building your proposed budget
- IAF Initiation begins with your Collaborative Pre-Award Grant Specialist, they will ensure the documents are uploaded and information is entered as the proposal is built
- A 6-business day proposal deadline for all documentation to your Collaborative Pre-Award Grant Specialist will ensure appropriate time for review and correction of items, and a timely submission to the
- Your Collaborative Pre-Award Grant Specialist will work with OSPA to start a review of your proposal once the budget and budget justification are complete, allowing additional time for the scientific materials to be developed and provided
- An Award Kickoff Meeting will be set up by your Collaborative Pre- and Post-Award Grant Specialists to ensure a seamless transition and start of your project

Post-Award

- Your Collaborative Post-Award Grant Specialist will gather and initiate the online sub-agreement request form for the PI to review and submit.
- The Collaborative Post-Award Grant Specialist will be added as a Subaward Invoice Reviewer (SIR) to allow them to review financial and administrative components of the invoice before routing to the principal investigator for technical review and approval.

Research Principal Investigator Quick Reference Guide

Sponsored Project Lifecycle Overview

The purpose of this document is to identify the responsibilities specific to Principal Investigators (PIs) throughout the sponsored project lifecycle, across Pre- and Post-Award. It also provides details on what Collaborative Grant Services (CGS) Staff will assist with in each stage.

Sponsored Project Lifecycle Guidance for Responsibilities

Find Funding and Develop Proposal

PI Responsibilities:

- Notify your Collaborative Pre-Award Grant Specialist of intent to submit pre-proposal, Letter of Intent, or full proposal using the **proposal initiation form**
- Prepare proposal budget with your Collaborative Pre-Award Grant Specialist, providing information to them such as individuals on the project, efforts, subrecipients, equipment, lab expenses, etc. to ensure budget is moving ahead
- Develop specific aims, research plan, regulatory compliance plan aligned with sponsor guidelines, for proposal
- Ensure institutional compliance submissions, such as your Financial Conflict of Interest disclosures are up to date

CGS Responsibilities:

- Provide checklist and timeline of sponsor requirements to Investigator
- Support administrative components of proposal development
- Obtain any required approvals from college leadership
- Develop and refine proposal budgets with Investigator's feedback
- Complete institutional information on sponsor forms and upload to sponsor system
- Create IAF

Review and Submit Proposal

Research Principal Investigator Project Lifecycle Checklist

Sponsored Project Lifecycle Checklist for Principal Investigators

The following checklist provides further details on the steps or tasks Investigators need to complete throughout a sponsored project's lifecycle. For questions or clarifications, please contact your assigned Collaboratives Pre- or Post-Award Grant Specialist.

Develop Proposal

- For proposals requiring a Letter of Intent or pre-proposal, notify your Collaboratives Pre-Award Grant Specialist of intent to submit and provide required documentation for submission
- Complete and submit the proposal initiation form detailing the following information: **Sponsor Name, Funding Opportunity/Guidelines, Due Date**. Your Collaborative Pre-Award Grant Specialist will initiate the Internal Approval Form (IAF) and develop a timeline and call out sponsor guidelines as needed.
- Provide your Collaborative Pre-Award Grant Specialist with the details needed to develop and refine proposal budget and justification, such as individuals and efforts planned, large pieces of equipment, etc.
- Provide any subrecipient contact information to your Collaboratives Pre-Award Grant Specialist if applicable and approve subrecipient SOW/Budget
- Review and update biosketches/CVs as well as Other Support as needed
- Complete institutional compliance (ECO) requirements and ensure any additional protocols that will be needed for research are kicked off
- Send proposal draft and any required proposal materials to your Collaboratives Pre-Award Grant Specialist to be uploaded to the IAF

Review & Submit Proposal

- Review final proposal package compiled by your Collaboratives Pre-Award Grant Specialist and provide approval of the IAF to be submitted to OSPA
- Discuss any edits requested by OSPA to proposal submission package with Collaboratives Pre-Award Staff to ensure timely and adequate completion.
- Review and approve final proposal package for submission

Post-Submission Activities

- Notify your Collaboratives Pre-Award Grant Specialist of any post-submission materials or Just In Time (JIT) Requests you received directly
- Provide relevant information on compliance approvals (IRB, IACUC, IBC) to your Collaboratives Pre-Award Grant Specialist
- Work with Collaborative Pre-Award Grant Specialist to develop just in time (JIT) or other post-submission information as needed

UK Collaborative Grant Services Proposal Checklists			
Guideline Review Checklist			
OSPA Proposal Preparation & Submission Webpage: https://www.research.ucl.ac.uk/office-sponsored-projects-administration/proposal-preparation-submission			
This form will record your name, please fill your name.			
Question	Response Options	First/Last Name	Additional Notes
Review Funding Announcement: Is candidate eligible to apply?	Yes No		Information and include in IAF comments
Is Deadline on a Weekday at 5PM ET/Local time? Note anything other than that to PI and put in IAF comments.	Yes No		
Is the Proposal PI Submitted? Confirmation from the sponsor and/or OSPA that we do NOT need an institutional password; notify PI "proposal" includes screenshots of ALL portal screens (not just attachments).	Yes No		
Have you drafted a timeline and provided to the PI?	Yes No		Required items (these may require additional time/planning with PI)
Mandatory Letter of Intent/Pre-Application? Letters or applications due prior to the full application; Notify faculty members ASAP; get letters/pre-apps submitted. Budget information may warrant an IAF	Yes No		
Other Support Requirements? Additional time may be needed. Look for virtual elements (ex. NIH R35), may request dollar support of PIs (as) Limited Submissions? If yes, notify OSPA RA, PDO, and CGS Team Lead immediately	Yes No		
Intergovernmental Review? Notify OSPA RA immediately to check with sponsor to see if review won't be completed by the proposal deadline	Yes No		
Advance Budget Approval? For NIH, any indication that the proposal budget requires prior approval for direct costs exceeding \$50,000 in any one budget year (including consortium ISA, if any).	Yes No		
Signatures Needed? Any Attachments Requiring a Signature (such as PI, Chair, Dean, AOR, UK Tech Transfer) that we need to collect ASAP	Yes No		
NIH Multiple PI Submission? Special Instructions for Multiple PDPIs: When submitting an application involving multiple PDPIs, list the "Contact" PDPI in this field. List all additional PDPIs in the Senior/Key Person section(s) below.	Yes No		
Are there consultants or subrecipients to be included in this proposal? Have you received the contact information from the PI to reach out to the third parties to request required documents? (LOI, Budget, Budget Justification, SOW)	Yes No		

Required Attachments/Letters: Have a list of attachment and who is responsible for each.

Training Staff within CGS: Standard Operating Procedures (SOPs)

To train CGS staff, we developed a series of SOPs that have been incorporated into an Operations Manual

Aligned on SOP Sections

SN	Section
1	Overview of Research Administration
2	Develop Sponsored Project Proposal & Review and Submit Application for Sponsored Project Funding
3	Current and Pending Support or Other Support
4	Post-Submission Activities
5	Review, Execute, and Establish Formal Sponsored Project Awards and Agreements
6	Establish Subawards
7	Manage Sponsored Project Spend
8	Maintain Subawards
9	Maintain Sponsored Projects
10	Sponsored Project Reporting
11	Execute Closeout Activities
12	Compliance Reporting

Drafting SOP Content

Contents:

- 1) Purpose
- 2) Policy Statement
- 3) Roles and Responsibilities
- 4) Procedures
- 5) RACI Matrix
- 6) Associated SOPs, Procedures, and QRGs
- 7) History

Create Operations Manual

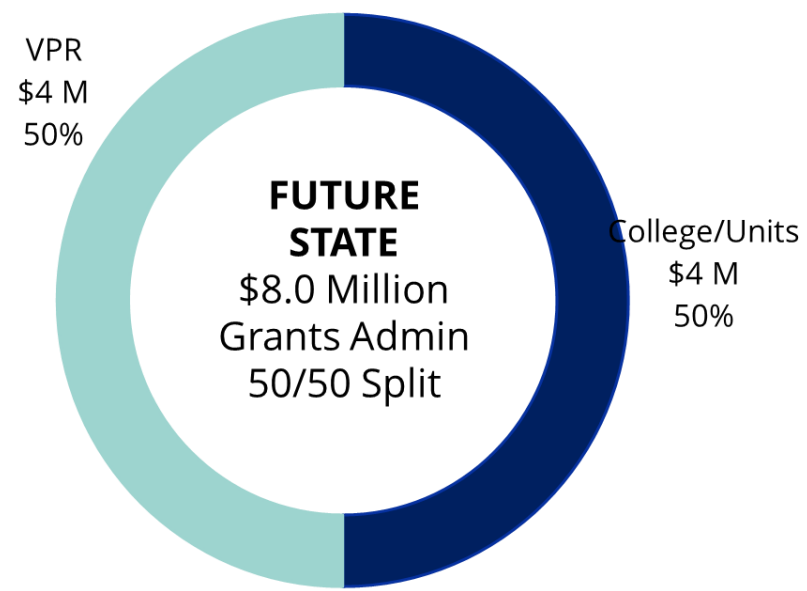
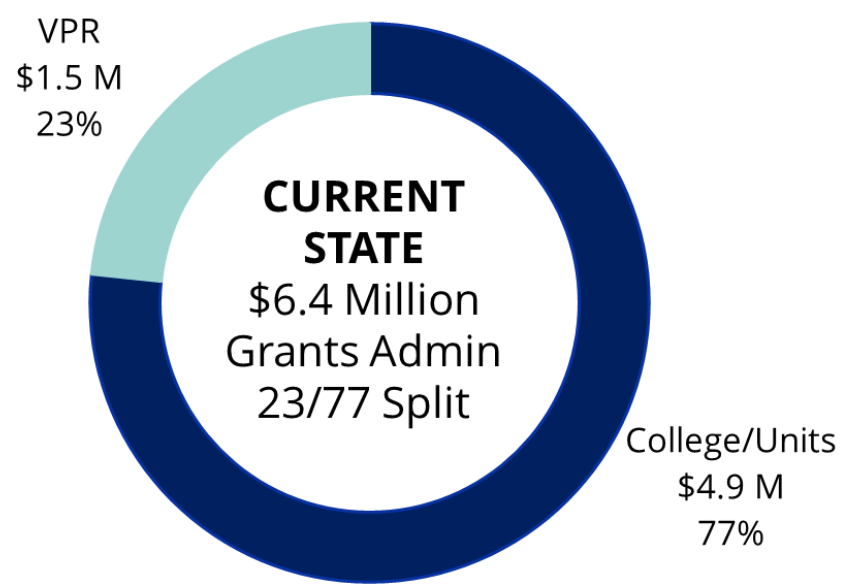


Project GATeWAY Funding Model (within the proposed FY24/25 UKRF budget)

The Funding Model was developed through extensive discussions within our Shared Governance Structure, College and Center leadership, and in discussion with the Provost Chief Budget Officer and UK Chief Budget Officer.

INVESTMENT IN RESEARCH

The Funding Model assumes a 50:50 split between Central Administration (UKRF) and units receiving shared services from CGS.



The Funding Model bases the unit's share of the costs of CGS on the unit's percentage of the university's total realized F&A (year prior). That percentage, which is an index of usage of the services, is applied towards 50% of the total cost of the CGS unit, the remainder is within the UKRF budget.

Continued Shared Governance Beyond the Completion of Project GATeWAY

It is important to define the organizational arrangements that determine who drives and participates in governance activities to ensure proper responsibility and accountability for key decisions and activities. This governance structure was defined in the Design Phase and has resulted in a formal Shared Governance Advisory Board that meets each month with leaders of Grants Administration Service Units.

RESPONSIBILITIES

Executive Director of Shared Collaborative Services

Strategic, High-level Decisions

- Sets strategy for shared services with input from the ADR Advisory Board and OSPA/RFS Leadership
- Conducts monthly meetings with Managers and Team Leads
- Provides final resolution for shared services issues

Management*

Program-Level Decisions

- Implements strategy for shared services
- Drives standardization and collaboration between hubs
- Manages hub-level SLAs for processes
- Manages talent and training
- Utilizes tools (listed below) to manage hub performance and service levels

Pre- and Post-Award Team Leads

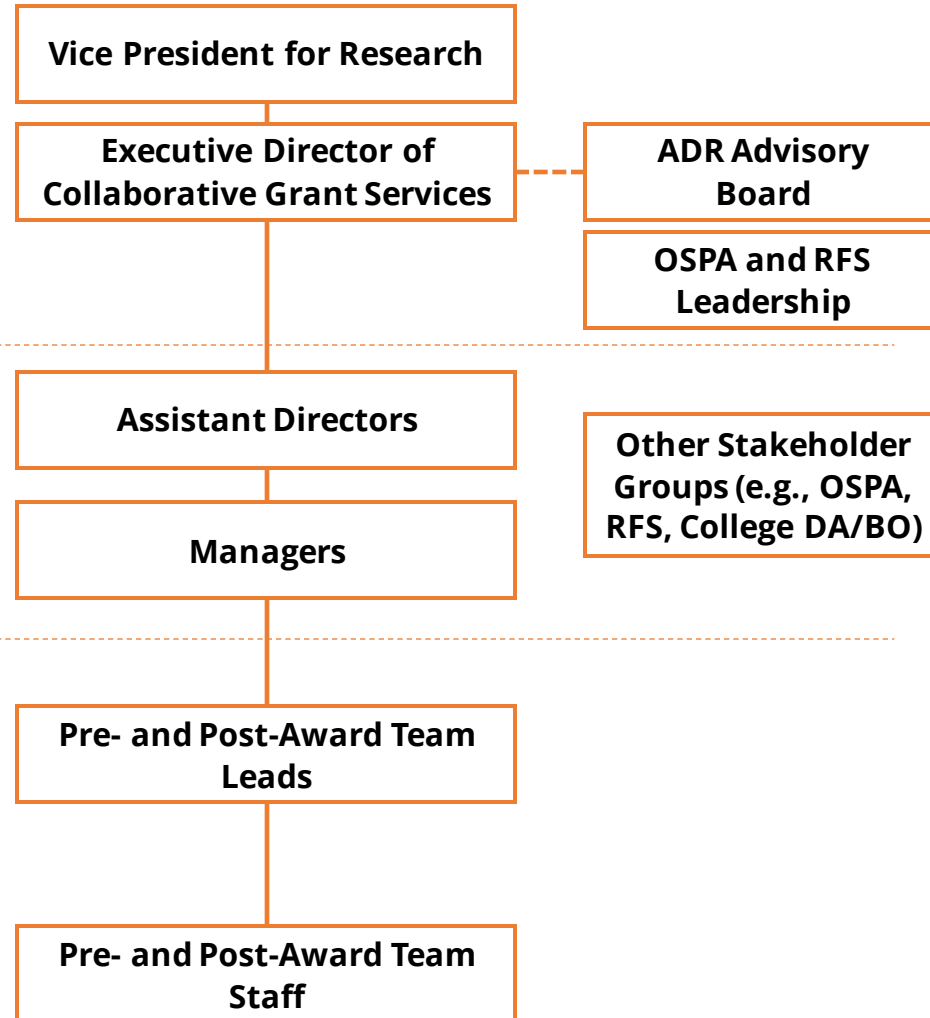
Day-to-Day Decisions

- Primary point of contact for staff's questions and issues
- Resolves issues within hub purview
- Manages issue escalation and protocols
- Participate in monthly meetings with shared services leadership
- Manages hub to meet SLAs

*Management could be associate director or assistant director

Tools

- Responsibility Matrix: RACI (Responsible, Accountable, Consulted, Informed)
- Escalation and Change Control Process
- Enhancement / Decision Making Approach
- Service Level Agreements (SLAs)



Using our Shared Governance structure, we developed formal Service Level Agreements (SLA) with each unit provided CGS Services

1 Section I – General Information and Objectives

Components:

1. SLA purpose and expectation
2. Mission
3. Vision
4. Guiding principles
5. Goals
6. CGS structure

2 Section II – Service Components

Components:

1. Location
2. Services
3. Expectations for response
4. Escalation procedures
5. Inappropriate request
6. Tracking effectiveness

3 Section III – SLA Maintenance

#	Component	Detail
1	Conditions Requiring Maintenance	As processes and policies evolve, changes to services and service levels may be required. Updates and changes to the SLA can be identified, presented, and confirmed through periodic review process.
2	Periodic Review of SLA	The CGS Executive Director and ADR Advisory Board will meet semi-annually to review the SLA to determine whether the services and service level commitment are meeting the needs of the departments served.
3	Ad Hoc Maintenance Requests	College Department Chairs, Department Administrators and Deans can propose changes to the SLA outside of the regular review process by raising their concern to the appropriate ADR who will meet with the CGS Executive Director.

4 Section IV – Funding Model and Signatures

The office of the VPR is committed to supporting and facilitating research, scholarship, and project initiatives, and the funding model is designed to ensure the successful launch and execution of such endeavors.

Beginning July 1, 2024, the new 50/50 funding model will go into effect for fiscal year 25

College/Unit	Collaboratives Grant Services
Name: [Insert Name]	Name: <u>Susan Stark</u>
Title: <u>Associate Dean for Research</u>	Title: <u>Executive Director of Collaboratives Grant Services</u>
Signature: _____	Signature: _____
Date: _____	Date: _____

Project GATeWAY Investments in People, Process and Technology: Transformation of Grants Administration

Throughout the duration and leading up to Project GATeWAY, the university has made significant investments across people, process and technology in the research enterprise.

FISCAL AND TIME INVESTMENTS

PEOPLE

Since Fiscal Year 2022

- ❖ **Additional Staff:** 79 new staff have been hired across CGS, OSPA, and RFS combined.
- ❖ **Promotions and Pay Equity:** staff have received promotions and pay equity adjustments across CGS*, OSPA, and RFS.

PROCESS

The Project GATeWAY Team held **over 32 hours of business process review sessions** with vested parties to improve current and future state processes.

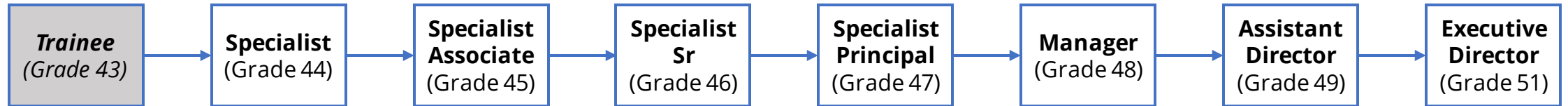
TECHNOLOGY

The Project GATeWAY Team held **over 10 hours of meetings with the Technology Working Group** to improve current and future state technologies across research.

We aren't finished, now we will focus on Career Pathing for our Staff

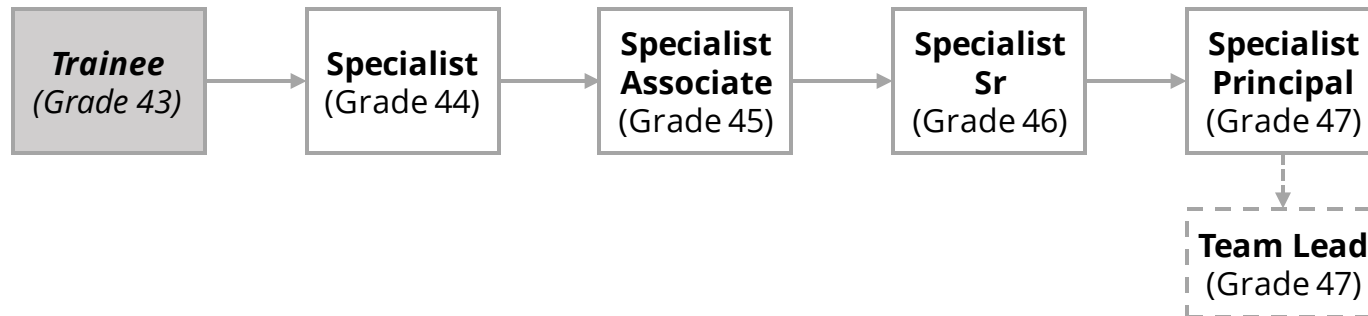
Within the CGS structure, career paths were intentionally designed to provide growth opportunities for staff at all levels, including creating functional subject matter expert roles for those who do not wish to move to a supervisory track.

SUPERVISORY TRACK



- Staff reporting directly to Managers (e.g., Hub 1 smaller colleges, Hub 3) can move to Team Lead positions within their hub or others

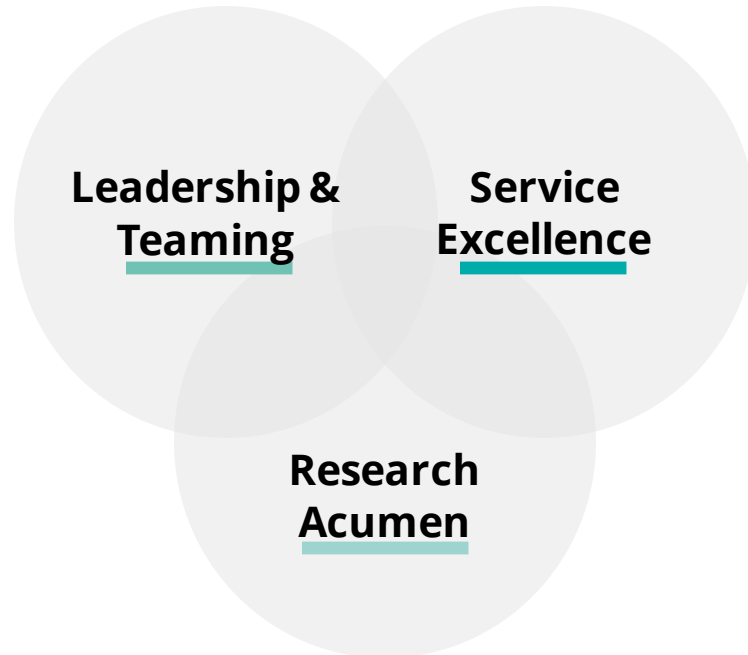
FUNCTIONAL TRACK



- Specialist Principals report directly to Managers rather than Team Leads
- Functional Track is capped at Grade 47, but Specialist Principals can move laterally to Team Lead if they are later interested in the supervisory roles and exhibit supervisory qualities

Career Pathing Across the Entire Research Administration Domain to Retain Talent

Beginning with our Grants Administration Structure, we will develop transparent career paths based on 3 key competency areas related to leadership and teaming skills, customer service and deliverable management, and research knowledge.



Leadership and Teaming

- Demonstrated collaboration with other research offices
- Communication skills
- Networking and ability to form professional relationships
- Support and mentorship of team and colleagues
- Promotion of UK culture and inclusion

Service Excellence

- Quality of work
- Prioritization of workload
- Ability to meet deadlines and respond to requests within determined timeframes
- Ability to resolve issues / answer PI and faculty questions
- Demonstrated initiative and growth in services provided
- Client relationship management

Research Acumen

- Demonstrated knowledge of SOPs and Business Processes
- Firm understanding of research portfolio
- Use of research tools and systems
- Understanding and experience of research sponsors
- Understanding of compliance requirements
- Participation in professional organizations (not required)

Charged a Workgroup to develop career pathing within the management structure of OVPR administrative units, including a funding model for this program

Taking Care of our People, the Research Leadership Academy (RLA): Complex Grant Office (served by Hub 3 of CGS)

- This office provides an array of support for PI's willing to step-up and apply for complex grants that have high impact.
- Support includes grant administration assistance, financial support, program coordination, external review, facilitation of research needs to support the proposed research across realms, etc.
- To date, the Complex Grants Program:
 - Has supported the development and submission of 25 complex grant applications totaling \$251M.
 - While many of these grant applications are pending, thus far 6 applications, totaling \$57.5M have been funded.
 - These are high-impact grants, covering topics like:
 - Tobacco Regulation
 - Advanced Manufacturing in Kentucky
 - Substance Use Coordinating Center
 - Climate Resilience in Kentucky

Taking Care of our People, RLA Career Development– Cohort 2

Participant	Title	Project	College	Department
Ickes, Melinda, Ph.D.	Professor	PREVENT: Prevention Research to Educate, advocate, and Empower the Next generation	College of Education	Kinesiology and Health Promotion
Jung, Yuha, Ph.D.	Associate Professor	Nonprofit Museums and their Tax-exempt Status	College of Fine Arts	Arts Administration
Kachroo, Aardra*, Ph.D.	Professor	ACAIA, a center for Accelerating Convergence of AI and Agriculture	College of Agriculture, Food and Environment	Plant Pathology
Kalliney, Peter, Ph.D.	Professor	Commonwealth Institute for Black Studies	College of Arts and Sciences	English and African American and Africana Studies
Luo, Liang, Ph.D.	Professor	Promoting Public Facing Transdisciplinary Research on Global Asias	College of Arts and Sciences	Modern and Classical Languages, Literatures, and Cultures
Nikolajczyk, Barbara, Ph.D.	Professor	Advancing TRAnslational ResearCh Teams (ATRACT)	College of Medicine	Pharmacology and Nutritional Sciences

* Accepted into the RLA program; deferred participation as invited to join NSF for a two-year period as a rotating program officer.

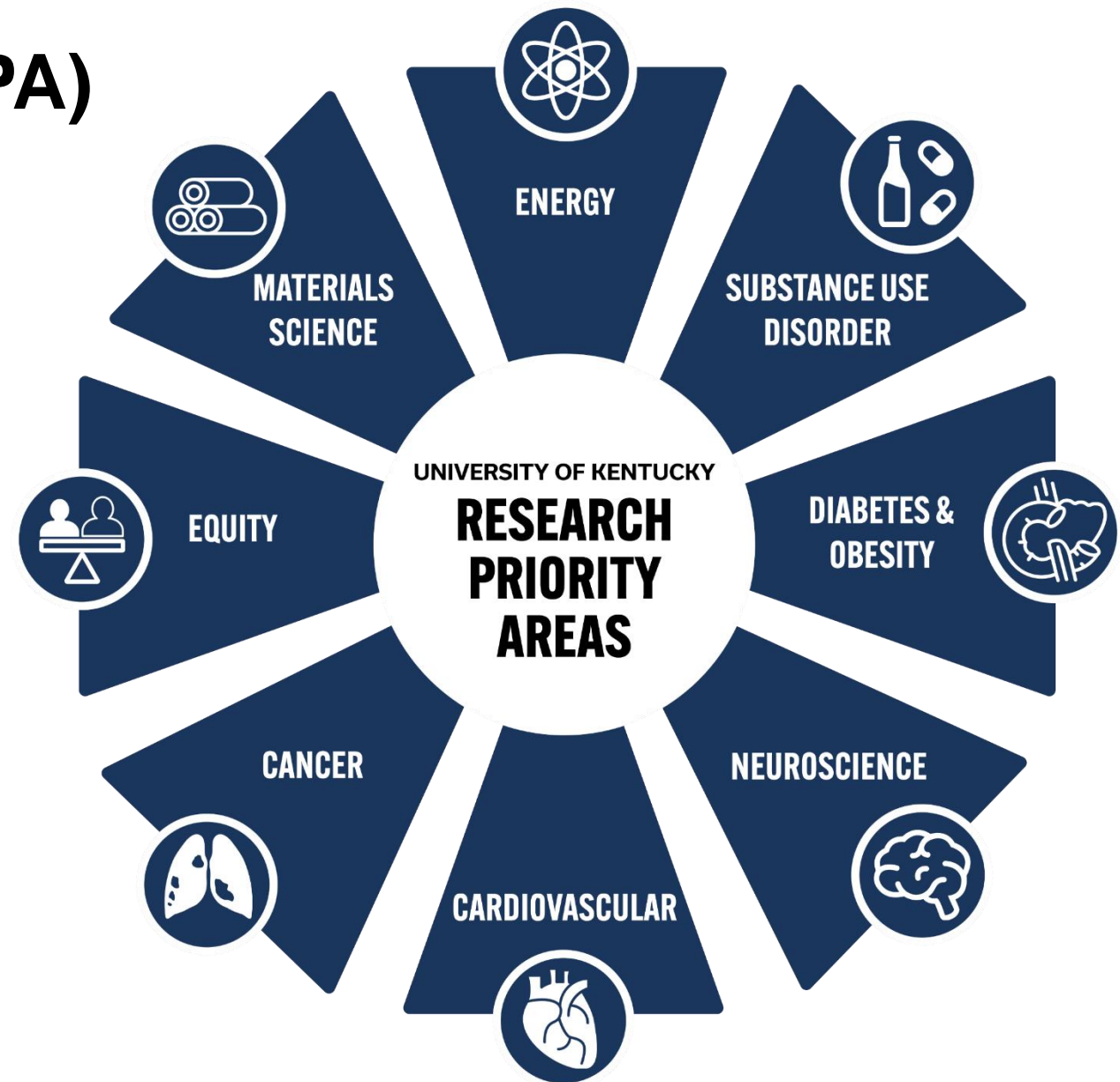
UK PURPOSE and Research

Following our Strategic Plan
Inspiring Ingenuity: Research Priority Areas, UK Innovate,
Emerging Themes for Research, Igniting Research
Collaborations, Other Program Offerings to Support Researchers

Research Priority Areas (RPA)


Criteria for becoming a RPA:

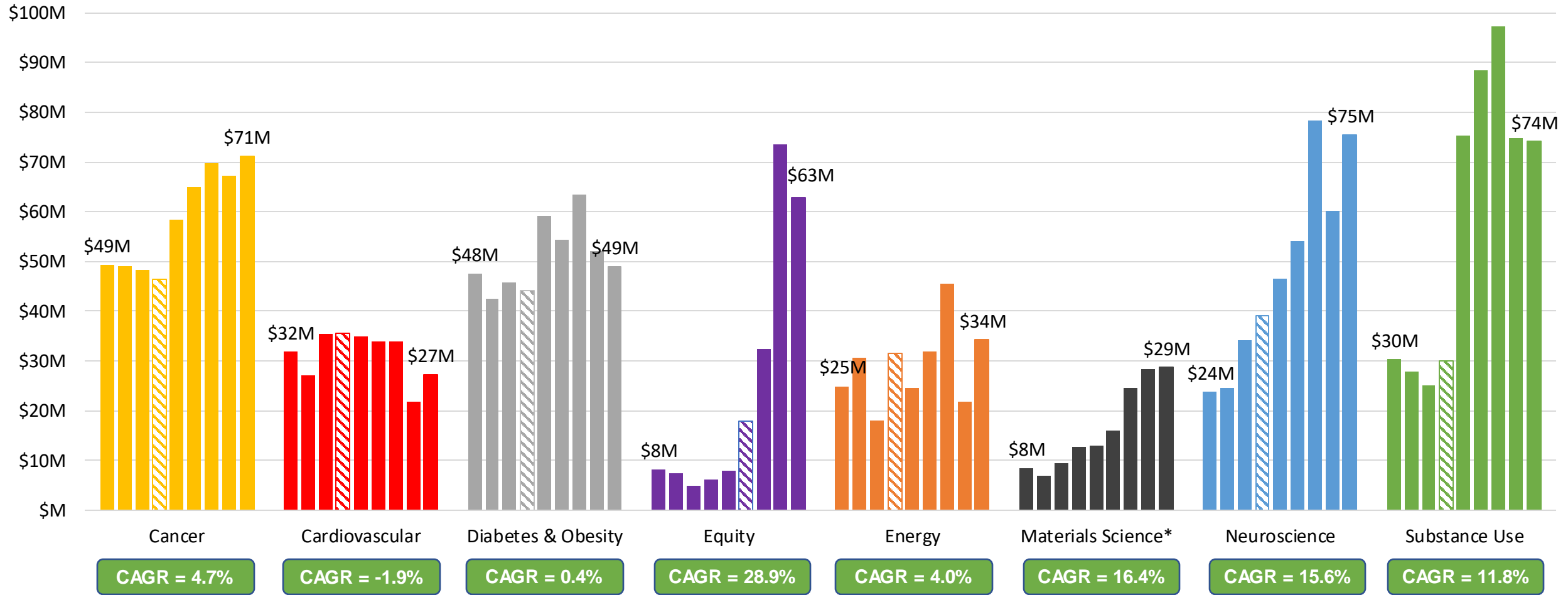
- **Local relevance** of the research, global impact
- **Existing faculty strength** and research leadership
- Disciplinary **research diversity**
- Potential interconnections of research with **educational opportunities**
- **Impact** of research on UK and the Commonwealth
- **Sustainability** of research



Awarded Grants and Contracts by Research Priority Area

Fiscal Year 2015 through 2023

Start of RPA Initiative = 



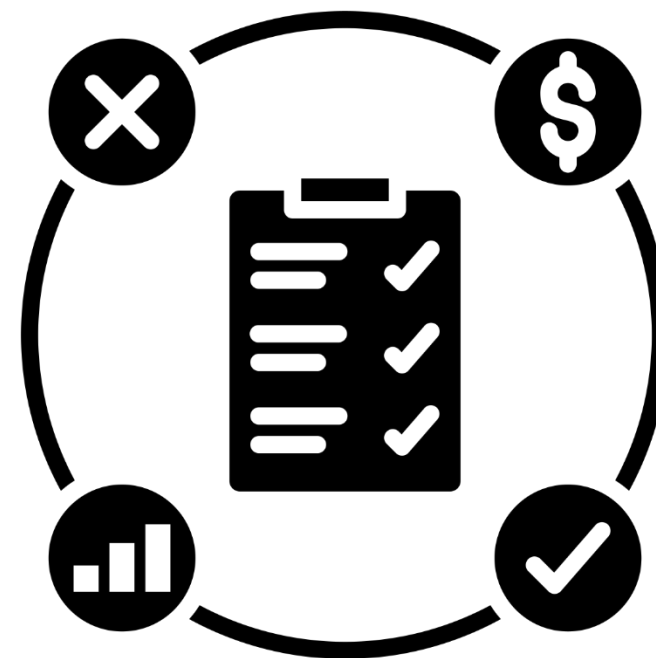
*RPA established with the start of Fiscal Year 2023-24. Note: Awarded projects for each thematic area are not mutually exclusive. Projects may be represented in one or more areas. Additionally, projects are based on keyword searches and may not include all related projects and may contain some projects that aren't specific to that area of research. CAGR = Compound annual growth rate. Source: UK OSPA Database, June 30, 2023

RPA Engagement & Impact

RPA Program Impact*

Fiscal Year 2023

- \$4.02 million in Expenditures:
 - Recruitment of Six Research-Active Faculty
 - Numerous Research Days & Symposia
 - \$1.2M committed to Pilot/Seed projects
 - \$440K in committed to research Start-Up Funds
 - \$110K Retention Package
 - \$518K+ in Equipment & Core Facilities Support
 - \$331K in Trainee and Student Research Support



*Estimates based on submitted FY 2023 Annual RPA Reports



New Competitiveness for Extramural Economic Impact Funding Since 2021

University Center



Capital Challenge

\$1M

\$3M

\$15M

\$1M

\$1M

\$8M

\$750k

\$1M to UK

\$1M to UK

\$1M to UK

\$200K to UK

\$1M to UK

\$1M to UK

New Research Grant: NSF ART

Accelerating Research Translation

- Partner: George Mason University
- Inaugural program from NSF TIP, focused on translational research capacity
- \$6M award for 4 years, with 10% to a “Mentor Institution”
 - UK is George Mason’s “Mentor Institution”
- Commercialization, technology transfer, entrepreneurship and research impact through extension program



KENTUCKY INNOVATOR CHALLENGE

Coming together to solve future-forward problems for Kentucky!



- TED-style talks from regional executives on their unmet research and development needs.
- Federal agencies highlighting collaborative grant opportunities.
- 2023 outcomes include:
 - New research collaborations.
 - New business-2-business and university partnerships.
 - Heightened awareness of regional businesses and unique challenges.



ECOFIBRE



Gray
Solutions

Holley



Inspiring Ingenuity: RLA Emerging Themes for Research, a Partnership with the Provost and UKHC

Funding Period	Participants	Degree	Project	College
2024-2025	Gustafson, Alison	Ph.D.	Food as Health Alliance	Medicine
2024-2025	Pendergast, Julie	Ph.D.	Circadian and Sleep Health for a Healthy Kentucky (CASH KY)	Arts & Sciences
2024-2025	Messaoudi Powers, Ilhem	Ph.D.	Consortium for Infectious Disease Research at the University of Kentucky	Medicine
2024-2025	Radtke, Rebekah	MArch	Global x Appalachia	Design
2024-2025	Richards, Christopher	Ph.D.	Nanomedicine and Bioelectronics	Arts & Sciences
2024-2025	Strakovsky, Dmitry	MFA	Creative Gateway for Advancing Digital Health	Fine Arts
2022-2024	Waters, Christopher	Ph.D.	Kentucky Research Alliance for Lung Disease	Medicine

Inspiring Ingenuity: Other Research Program Offerings

- **Igniting Research Collaborations:** cross-college transdisciplinary pilot seed support program, networking, grant write-up follow through. This program has supported **103** pilot projects since 2014 costing \$3.3M, with a ROI on these dollars of approximately \$62M.
- **CURATE Committee:** innovative programs to support social science, fine arts, business/economics, education, design, communication research
- **Lunch and Learn Series:** sharing of information to promote research collaboration
- **Conference Support Grants:** for conferences held at UK that have international impact

UK PURPOSE, Research and the UKRF Budget

Following our Strategic Plan
Trust, transparency and accountability

Trust, transparency and accountability in Research

- Project GATeWAY extensive shared governance structure use throughout the project, career pathing for transparent path to staff promotion
- Monthly meetings of the Research Advisory Group, Associate Deans for Research, Department Chairs and Research Center Directors, OVPR leadership team
- Regular meetings of Research Staff Directors, Center and Institute Directors, Research Priority Area leaders
- Regular reporting within these meetings on staff unit productivity
- Responsible Conduct of Research Training, online and in-person mandatory training for over 14,000 UK researchers
- Electronic Laboratory Data Notebook for data storage
- iThenticate anti-plagiarism software
- Scholars@UK inward and outward facing researcher and unit research profiles

UK PURPOSE, Research and the UKRF Budget

Following our Strategic Plan
Many People, One Community

Many People, One Community of Research

- UNITE program offerings that span from undergrads, graduate students, postdocs, faculty to the community
- Research Scholars Program for junior investigators
- Individual Postdoctoral Enrichment Program for scholars under-represented in their field of study
- UKinSPIRE: international research pilot/seed support, in its second year in partnership with the International Office
- Extensive support of large, programmatic grants that have broad impact = NIH CTSA, NCI designated comprehensive cancer center, NIH HEALing Communities Study, NIH Alzheimer's Disease Center, NIH UK-CARES for environmental impact across the Commonwealth, NIH KYNETIC, NIGMS Innovator Hub, NSF EPSCoR Program, AppalTRuST

UKRF Budget

- For FY23, we budgeted \$70M of anticipated F&A income, representing a 5% increase from the previous year because of growth in extramural grants and contracts
- FY24 Proposed Budget: \$73M (a 4% increase, based on growth in realized F&A within the previous year)

Tab 5B, Page 1 within your packet Budget Summary

- Total Revenue:
\$176,243,755, representing an increase of \$18,674,355
- Transfers and Expenditures:
 - Transfers of \$34,461,955 to the institution
 - Expenditures of \$141,781,800
 - For a total Transfers and Expenditures of \$176,243,755

Tab 5B, Budget Page 2 within packet

II. Transfers to General Fund (major changes)

- A.2. Service assessment, +\$139,355
- A.7. Research Financial Services, +\$73,500, new position from Project GATeWAY
- A.8. VP University Relations, Research Communications, +\$73,200, promotions and shared position
- B.1. Research Administration Personnel and Support, +\$1,571,800, Project GATeWAY new positions and restructuring of OSPA, position upgrades, annual salary increases
- B.2. Collaborative Grant Services, +\$2,999,200, 50% salary costs for 87 shared service positions
- B.3. Office of Technology Commercialization, +\$129,700, salary increases and promotion
- D. Debt Service, Removal of BBSRB debt -\$1,786,400, addition of more funds for HKRB debt +\$1,719,900, adding renovation debt for Sanders Brown +\$276,500

Tab 5B, Budget Page 2 within packet

II. Expenditures, A. Operating expenses

- A. Operating Expenses, Research Administration
 - A.2.b. Research Administration Software: +\$68,400, increase in enterprise software costs
 - A.3 OSPA, -\$16,900, reduction in operating costs due to increased numbers of remote employees
 - A.4. Federal Relations, +\$12,000, increased travel costs
 - A.7. Discretionary Accounts: +\$4,000, shared services staff allocation
 - A.11. Research Buildings Facilities Management: -\$12,500, reassignment of equipment maintenance costs to colleges
 - A.13, Proposal Development Office: +\$7,600, software cost increase
 - A.14, Office of Research Integrity, -\$4,000, online IRB meetings reduce operating cost needs
 - A.15, Research Financial Services: +\$27,100, new laptops for additional employees, software increases
 - A.17. Collaborative Shared Services, +\$45,600, operating costs for Shared Services Collaboratives for grants administration

Tab 5B, Budget Page 3 within packet

II. Expenditures, B. Other activity

- B.1. Contingency reserve: +\$300,000, 10% of estimated budget
- B.2. Private gifts/endowments: +\$108,700, increase in anticipated gift/endowment expenditures
- B.3. Intellectual property License Expenses: +\$400,000, estimates of patent/license costs
- B.4. Intellectual property royalty sharing: +\$778,700, increase in royalty sharing program expenses due to fund balances & increase in patent income
- B.5. UK Innovate: -\$680,300, salary support elsewhere, reduced travel costs
- II.B.6. Clinical Support Office Fees, +\$10,000, increase in Viticulture sales

Tab 5B, Budget Page 3 within packet

II. Expenditures, C. Research Programs

- 1a. Formulaic start-up: +\$600,000 (20% of UKRF budget)
- 2a-c. Formulaic incentive return programs to colleges/centers: +\$1,150,900, (~45% of overall budget)
- 3b. Research Leadership Academy: -\$400,000, not offering career development program in FY25
- 4. Grant Related Support: -\$1,000,000, requests for grant support have decreased
- 5. Shared Use Facilities: -\$53,600, reductions in service center subsidy needs
- 6. University Wide Initiatives, +\$18,900, removal of one service unit, additional support for bioinformatics
- 7a-c. Strategic Investment Fund: -\$1,887,000, capping of RPA allocations to \$500K/area, no increase in competitive pool for this program
- 8a. Fund Balance Carryforward Estimate: +\$14,000,000, fund balance across departments, colleges, centers