

## Research Expenditure Report

ALL FUND GROUPS	FY 2022				
	Year-to-Date as of September 30, 2021				
	Unit	Federal	Institutional	Private	State
Division of Health Affairs	\$ 323,942	\$ 573,203	\$ 456,830	\$ 372,028	\$ 1,726,003
Finance & Planning		\$ 6,162	\$ 877		\$ 7,039
Provost - Academic Affairs	\$ 269,590	\$ 2,030,690	\$ 37,260	\$ 34,524	\$ 2,372,064
Research Grad Studies New Pgms	\$ 109,107	\$ 189,394		\$ 29,321	\$ 327,822
Strategic Enrollment & Student Affairs		\$ 25			\$ 25
Student Success		\$ 2,419			\$ 2,419
<b>Grand Total</b>	<b>\$ 702,639</b>	<b>\$ 2,801,893</b>	<b>\$ 494,967</b>	<b>\$ 435,872</b>	<b>\$ 4,435,372</b>

FY2021	FY2020	FY2019
As of September 30, 2020	As of September 30, 2019	As of September 30, 2018
\$ 1,699,702	\$ 1,500,536	\$ 602,490
\$ 2,665	\$ 11,426	
\$ 2,148,803	\$ 2,284,823	\$ 2,397,807
\$ 342,160	\$ 316,233	\$ 142,053
\$ 370	\$ 230	\$ 1,473
\$ 2,213	\$ 3,716	\$ 1,882
<b>\$ 4,195,913</b>	<b>\$ 4,116,964</b>	<b>\$ 3,145,706</b>

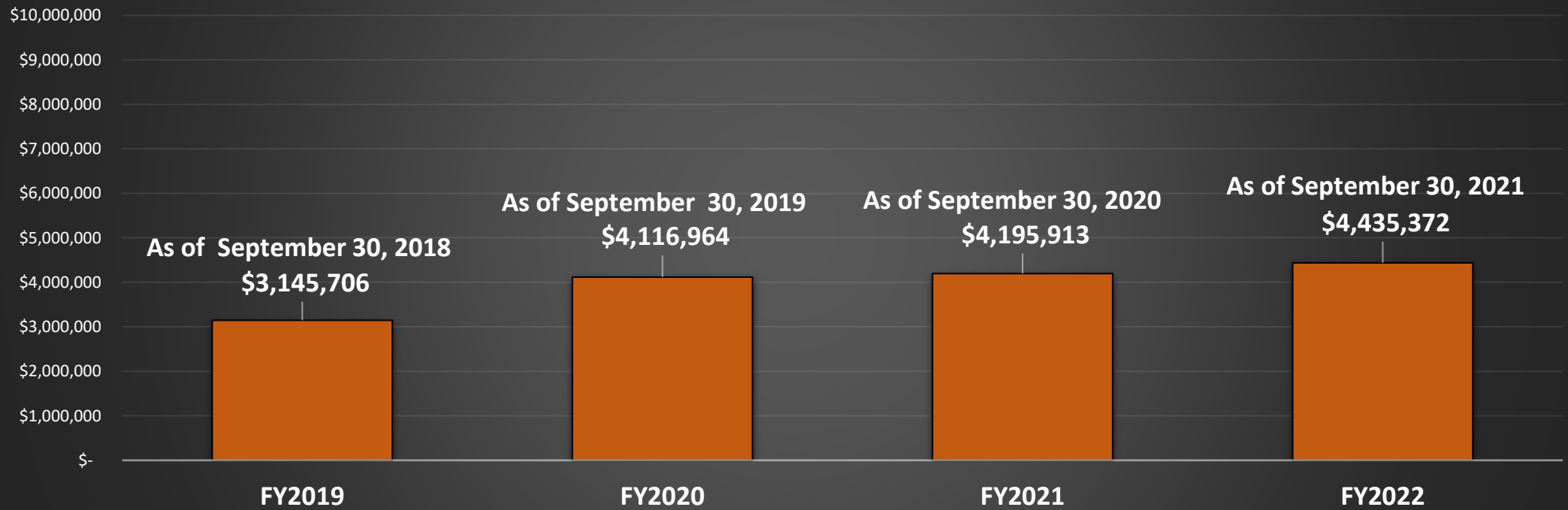
RESTRICTED	FY 2022				
	Year-to-Date as of September 30, 2021				
	Unit	Federal	Institutional	Private	State
Division of Health Affairs	\$ 199,809		\$ 415,122	\$ 38,788	\$ 653,719
Finance & Planning			\$ 877		\$ 877
Provost - Academic Affairs	\$ 200,740		\$ 32,128	\$ 32,239	\$ 265,106
Research Grad Studies New Pgms	\$ 88,725				\$ 88,725
<b>Grand Total</b>	<b>\$ 489,273</b>	<b>-</b>	<b>\$ 448,127</b>	<b>\$ 71,027</b>	<b>\$ 1,008,427</b>

FY2021	FY2020	FY2019
As of September 30, 2020	As of September 30, 2019	As of September 30, 2018
\$ 576,892	\$ 484,629	\$ 132,723
\$ 36	\$ 1,426	
\$ 191,792	\$ 390,853	\$ 395,150
\$ 217,450	\$ 205,880	\$ 73,089
<b>\$ 986,169</b>	<b>\$ 1,082,789</b>	<b>\$ 600,963</b>

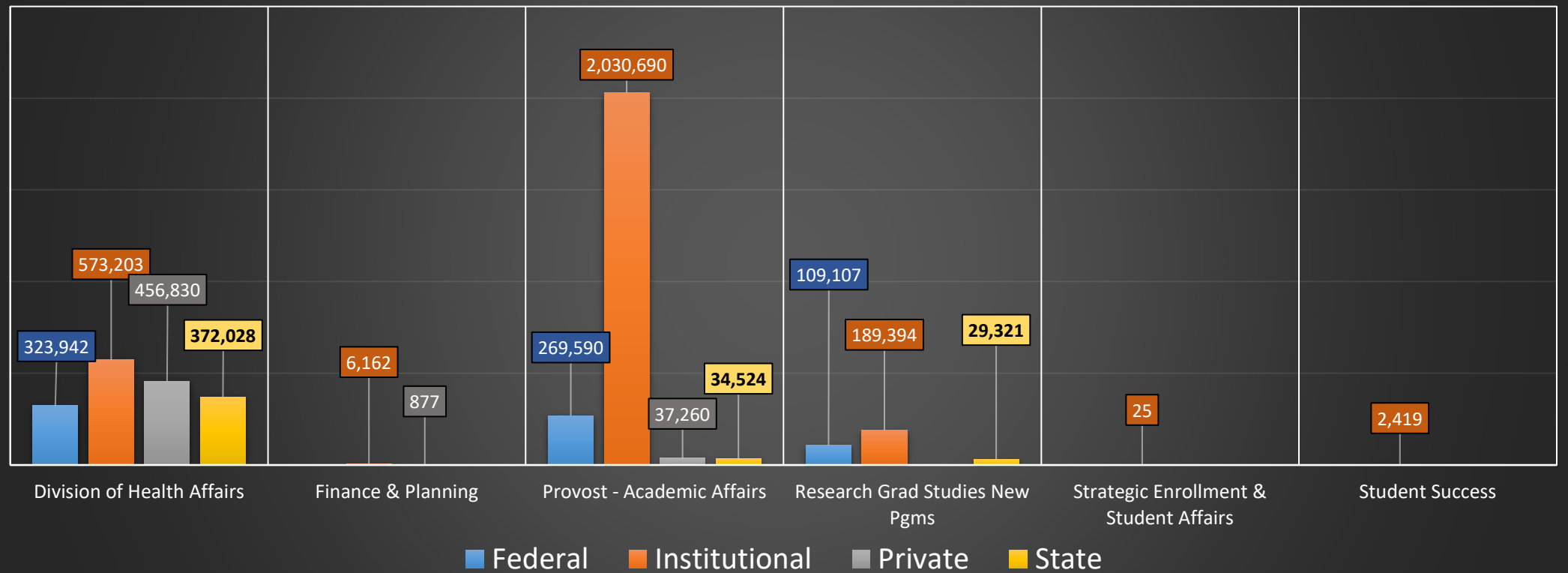
**Note:**

Indirect Costs and Pass-through expenditures have been excluded from the Research Expenditures Report. Restricted research should not include indirect costs and pass-through expenditures in order to match the Sources and Uses report which follows the Texas Higher Education Coordinating Board's Standards and Accounting Methods for Reporting Restricted Research Expenditures.

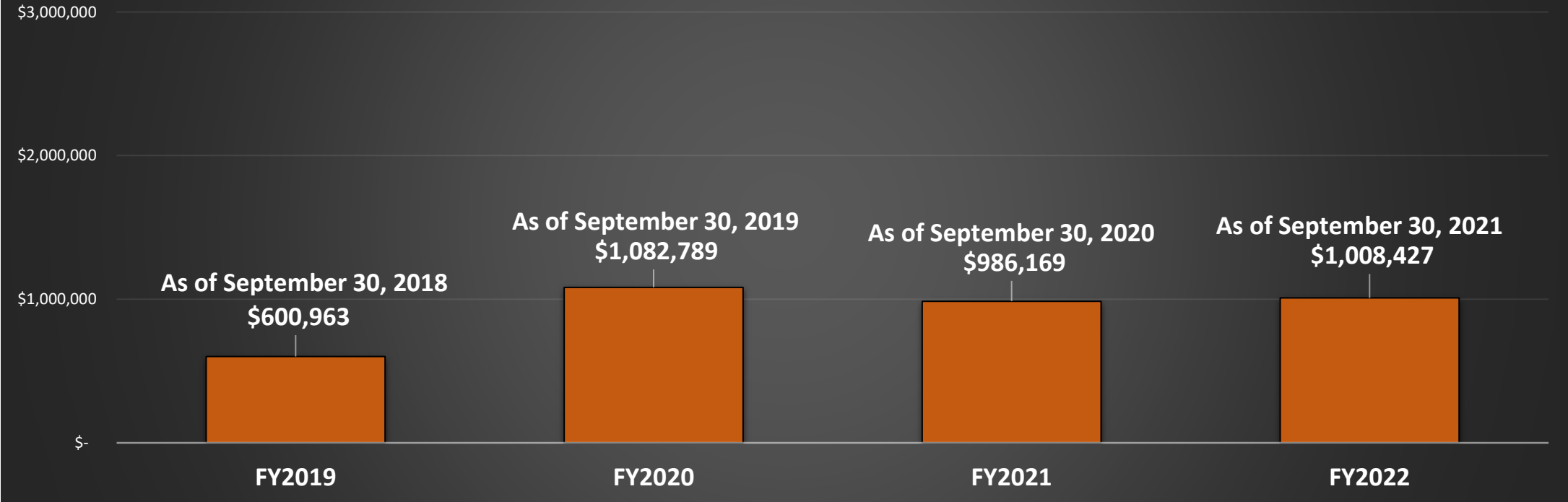
## Research Expenditures - All Fund Groups - By Fiscal Year



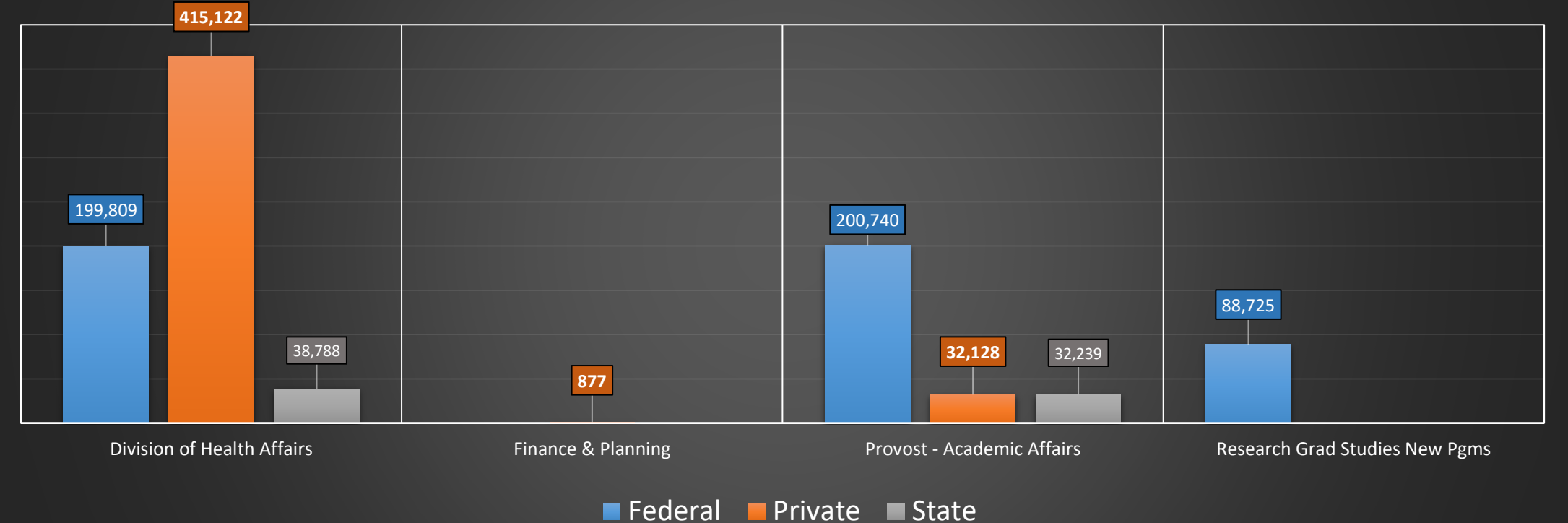
## Research Expenditures - All Fund Groups - By Division



### Research Expenditures - **Restricted** - By Fiscal Year



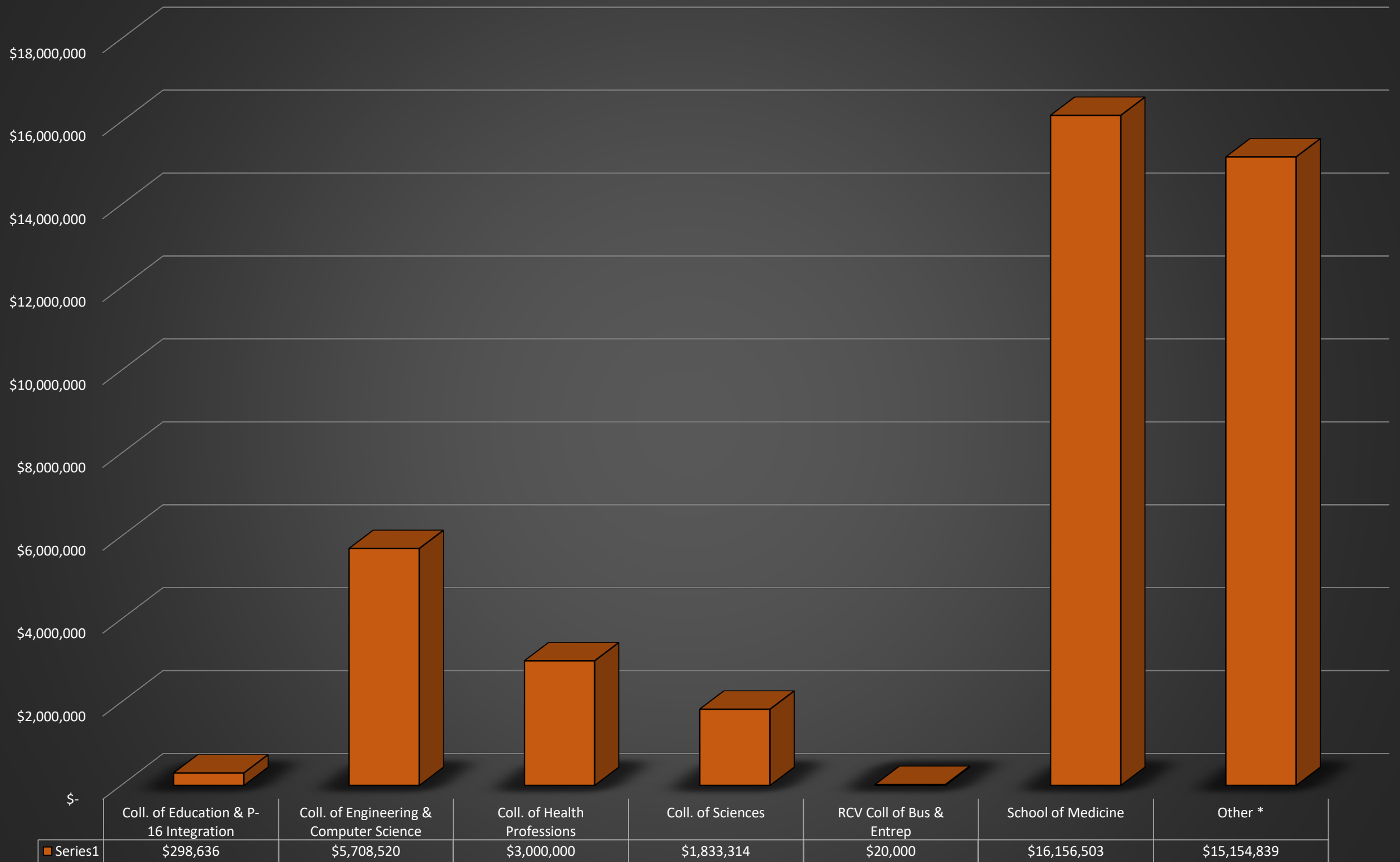
### Research Expenditures - **Restricted** - By Division



**The University of Texas Rio Grande Valley  
Proposal Submission by Division/College/School**

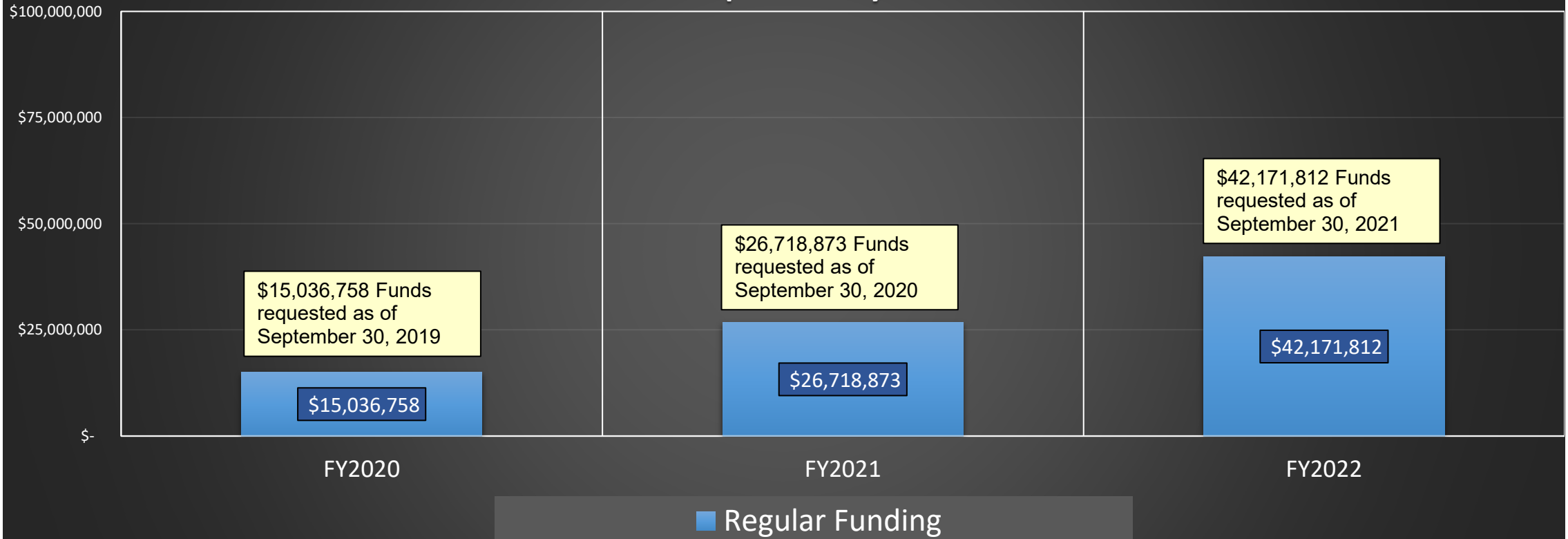
<b>Unit</b>	<b>SEP - FY2022</b> <i>Sep 1, 2021 - Sep 30, 2021</i>		<b>FY2022 - YTD</b> <i>Sep 1, 2021 - Sep 30, 2021</i>	
	Count	Amount Requested	Count	Amount Requested
<b>Health Affairs</b>				
<i>School of Medicine</i>	15	\$ 16,156,503	15	\$ 16,156,503
<b>Provost - Academic Affairs</b>				
<i>College of Education &amp; P-16 Integration</i>	4	\$ 298,636	4	\$ 298,636
<i>College of Engineering &amp; Computer Science</i>	10	\$ 5,708,520	10	\$ 5,708,520
<i>College of Health Professions</i>	1	\$ 3,000,000	1	\$ 3,000,000
<i>College of Sciences</i>	10	\$ 1,833,314	10	\$ 1,833,314
<i>Robert C. Vackar College of Business &amp; Entrepreneurship</i>	1	\$ 20,000	1	\$ 20,000
<b>Research, Graduate Studies &amp; New Program</b>	1	\$ 15,154,839	1	\$ 15,154,839
<b>Grand Total</b>	<b>42</b>	<b>\$ 42,171,812</b>	<b>42</b>	<b>\$ 42,171,812</b>

## Proposal Submission - Funds Requested By College & Schools September 1, 2021 to September 30, 2021

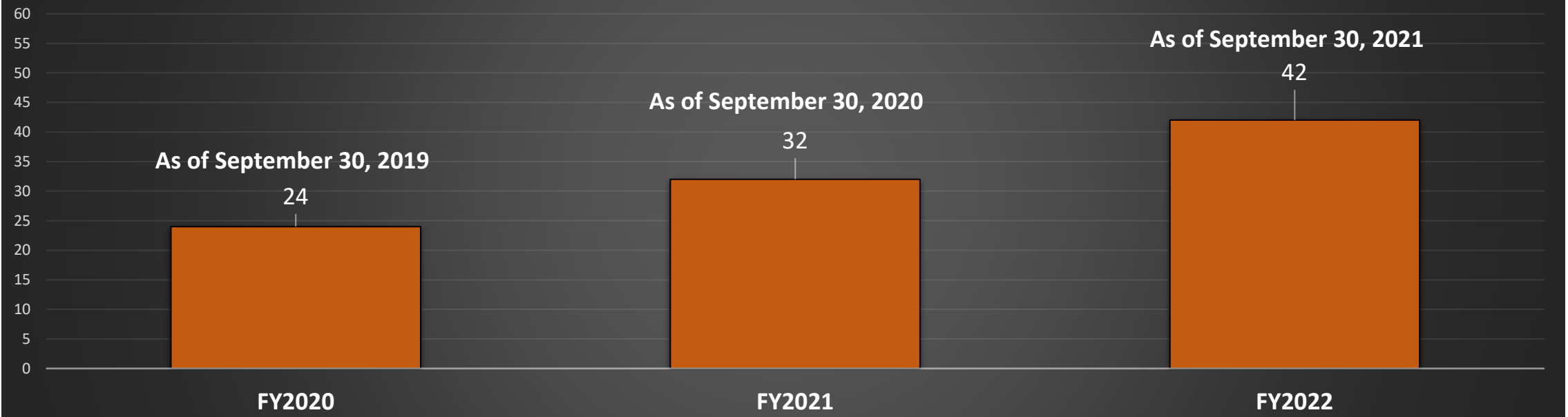


\* This category is composed of Non-College Areas such as the Division of Research & New Program Development, Governmental & Community Relations and Strategic Enrollment & Student Affairs

### Funds Requested By Fiscal Year



### Proposals - Number of Proposals Submitted - By Fiscal Year



The numbers represented in the charts above include amounts since the start of the fiscal year up to the date represented in each column.

**The University of Texas Rio Grande Valley**  
**Proposals submitted in September**

Division	College/School	Department	PI Name	Project Title	Agency/Sponsor Name	Total
Health Affairs	School of Medicine	Family Medicine	George, Deepu	<b>A Pragmatic Trial to Reduce Chronic Pain-Related Health Disparities: Focused Acceptance &amp; Commitment Therapy (FACT-CP) Delivered in Integrated Primary Care</b>	National Institutes of Health (NIH)	\$ 428,219
Health Affairs	School of Medicine	Family Medicine	George, Deepu	<b>The Fortify Resilience Initiative</b>	Health Resources and Services Administration	\$ 1,755,714
Health Affairs	School of Medicine	Human Genetics	Kumar, Satish	<b>Induced pluripotent stem cell-based approach to identify biomarkers of rotenone toxicity associated Parkinson's disease risk</b>	U.S. Department of Defense	\$ 1,199,948
Health Affairs	School of Medicine	Immunology and Microbiology	Jaggi, Meena	<b>Novel therapeutic strategy for the treatment of metastatic castration resistant prostate cancer</b>	U.S. Department of Defense	\$ 1,110,000
Health Affairs	School of Medicine	Immunology and Microbiology	Yallapu, Murali	<b>A Promising Nanosynergistic therapy for Drug Resistant and Metastatic Prostate Cancer</b>	U.S. Department of Defense	\$ 1,110,000
Health Affairs	School of Medicine	Immunology and Microbiology	Tripathi, Manish	<b>Role of lncRNA UCA1 in anchorage independent survival and colorectal cancer tumorigenesis</b>	National Institutes of Health (NIH)	\$ 740,000
Health Affairs	School of Medicine	Immunology and Microbiology	Yallapu, Murali	<b>Bioengineering of Breast Cancer Specific Fluorescent Probe for Detection and Image-Guided Surgery</b>	U.S. Department of Defense/CDMRP	\$ 1,480,000
Health Affairs	School of Medicine	Immunology and Microbiology	Chauhan, Subhash	<b>Immunomodulation by engineered bacteria</b>	National Institutes of Health (NIH)	\$ 3,500,000
Health Affairs	School of Medicine	Immunology and Microbiology	Hafeez, Bilal	<b>Novel strategy to improve the checkpoint blockade immunotherapy of liver cancer</b>	U.S. Department of Defense	\$ 740,000
Health Affairs	School of Medicine	Immunology and Microbiology	Kashyap, Vivek Kumar	<b>Immunomodulation with engineered bacteria in Hepatocellular carcinoma</b>	National Institutes of Health (NIH)	\$ 1,850,000
Health Affairs	School of Medicine	Immunology and Microbiology	Khan, Sheema	<b>Identification of HCC Influencing microbial signatures</b>	National Institutes of Health (NIH)	\$ 740,000
Health Affairs	School of Medicine	Immunology and Microbiology	Khan, Sheema	<b>Identification of HCC Influencing microbial signatures</b>	U.S. Department of Defense	\$ 702,622
Health Affairs	School of Medicine	Molecular Science	Correa, Genaro Ramirez	<b>Abnormal Crosstalk between O-GlcNAcylation and Phosphorylation in Kinase Regulation as a Mechanism of Glucose Toxicity in Diabetic Retinopathy</b>	Private/Foundation	\$ 10,000
Health Affairs	School of Medicine	Molecular Science	Correa, Genaro Ramirez	<b>Pathophysiological Role of Abnormal Phosphorylation and O-GlcNAcylation Signaling in Human Diabetic Cardiomyopathy</b>	National Institutes of Health (NIH)	\$ 740,000
Health Affairs	School of Medicine	Molecular Science	Tsin, Andrew	<b>Divine Children Inc. &amp; UTRGV SOM Mentoring Program</b>	Private/Foundation	\$ 50,000

**The University of Texas Rio Grande Valley**  
**Proposals submitted in September**

Division	College/School	Department	PI Name	Project Title	Agency/Sponsor Name	Total
Provost - Academic Affairs	College of Education & P-16 Integration	Bilingual & Literacy Studies	Kambara, Hitomi	A Validation Study of the Latinx College Students Reading Motivation	Private/Foundation	\$ 49,913
Provost - Academic Affairs	College of Education & P-16 Integration	Counseling	Yznaga, Selma	Training a Mental Health Workforce to Address the Needs of Immigrants and Refugees at the U.S. Southern Border	Private/Foundation	\$ 48,085
Provost - Academic Affairs	College of Education & P-16 Integration	Psychological Science	Lin, Yu-Cheng	Does Culture Influence What We Think about Ourselves? Effects of Cultural Priming on Self-construal among Hispanic Americans	Private/Foundation	\$ 1,000
Provost - Academic Affairs	College of Education & P-16 Integration	Psychological Science	Hovey, Joseph	Implementation of Ecological Momentary Assessment Technology to Reduce Adolescent Suicide Risk in South Texas	Private/Foundation	\$ 199,638
Provost - Academic Affairs	College of Engineering & Computer Science	Civil Engineering	Amjadian, Mohsen	Intelligent Self-Powered Wireless Sensing System for Onboard Real-time Health Monitoring of Freight Trains	Private/Foundation	\$ 90,344
Provost - Academic Affairs	College of Engineering & Computer Science	Computer Science	Xu, Lei	Ambition: A Virtual Institute for AI/ML and Blockchain Enabled Mode	U.S. Department of Defense	\$ 161,071
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Chu, Mark Yul	Developing efficient computation model for bioinformatics applications	California State University (CSU), Fresno / National Science Foundation	\$ 159,952
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Dera, Dimah	CRII: SaTC: RUI: TRUST – Trustworthy Uncertainty Propagation for Sequential Time-Series Analysis	National Science Foundation	\$ 174,922
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Islam, Nazmul	NRT-URoL: Integrated Bioengineering Educational Paradigm, Research and Training (iBioEPRT) for Underrepresented Minority STEM Graduate Students	National Science Foundation	\$ 2,000,000
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Kumar, Sanjeev	NRT: HDR: WoU: Interdisciplinary STEM Graduate Research Training for Data Driven Smart Digital Society	National Science Foundation	\$ 1,999,899
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Rahman, Mostafizur	CNS CORE: Small: Multi-Operator Intelligent Unmanned Aerial Vehicular Traffic Controller in Beyond Visual Line of Sight Delivery Networks	National Science Foundation	\$ 598,402
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Rahman, Mostafizur	CRII: CNS: Incentive-based Intelligent Collaborative Spectrum Access in Citizens Broadband Radio Service	National Science Foundation	\$ 174,081



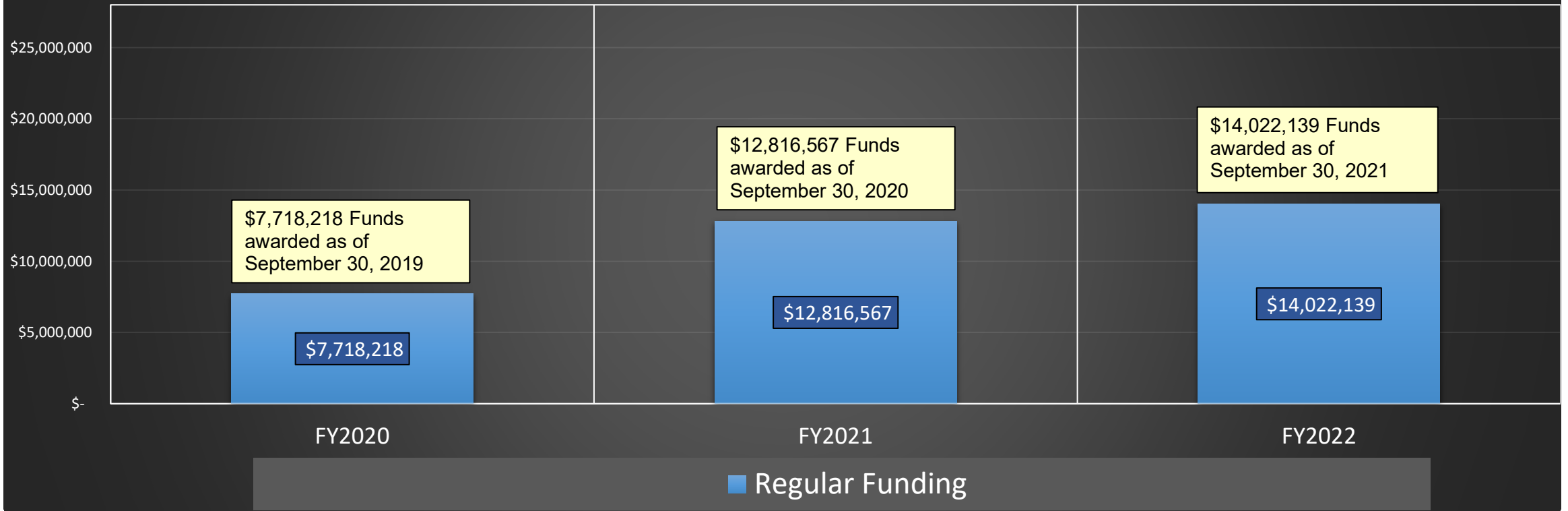
**The University of Texas Rio Grande Valley**  
**Proposals submitted in September**

Division	College/School	Department	PI Name	Project Title	Agency/Sponsor Name	Total
Provost - Academic Affairs	College of Engineering & Computer Science	Mfg & Industrial Engineering	Geng, Zhaohui	CRII: CPS: Machine Learning-Enhanced Geometric Design-Process Knowledge Discovery Frame-work in Advanced Manufacturing using Unstructured Point Clouds	National Science Foundation	\$ 174,854
Provost - Academic Affairs	College of Engineering & Computer Science	Mfg & Industrial Engineering	Shi, Chao	CRII: HCC: A Data-Driven AI-Based Driving Simulator Framework for mTBI	National Science Foundation	\$ 174,995
Provost - Academic Affairs	College of Health Professions	Health & Biomedical Sciences	Roy, Upal	Enriched Environment as a tool to characterize Motor and Cognitive Dysfunction in Neurotoxin induced Parkinson's Disease	U.S. Department of Defense	\$ 3,000,000
Provost - Academic Affairs	College of Sciences	Biology	Dearth, Robert	Joint Admission Medical Program	Texas JAMP	\$ 21,247
Provost - Academic Affairs	College of Sciences	Biology	Dirrigl, Frank	Fruit fly eradication support in Lower Rio Grande Valley FY21-FY22	U.S. Department of Agriculture	\$ 165,925
Provost - Academic Affairs	College of Sciences	Chemistry	Smith, Chris	UTeach RGV Teacher Project	Private/Foundation	\$ 60,000
Provost - Academic Affairs	College of Sciences	Chemistry	Uddin, Mohammed	The Welch Foundation Project	Private/Foundation	\$ 150,000
Provost - Academic Affairs	College of Sciences	Mathematical & Statistical Sci	Garber, Alexey	Combinatorics of periodic tilings and point patterns	National Science Foundation	\$ 190,588
Provost - Academic Affairs	College of Sciences	Mathematical & Statistical Sci	Liu, Bingyuan	Problems on analysis, geometry and dynamical system of several complex variables	National Science Foundation	\$ 313,707
Provost - Academic Affairs	College of Sciences	Mathematical & Statistical Sci	Musin, Oleg	Sphere Packings in Four Dimensions	National Science Foundation	\$ 269,910
Provost - Academic Affairs	College of Sciences	Mathematical & Statistical Sci	Roychowdhury, Mrinal Kanti	Quantization and centroidal Voronoi tessellations for probability distributions	National Science Foundation	\$ 402,288
Provost - Academic Affairs	College of Sciences	Mathematical & Statistical Sci	Yoon, Jasang	RUI: Commuting pairs of bounded linear operators on a Hilbert space	National Science Foundation	\$ 122,988
Provost - Academic Affairs	College of Sciences	Physics and Astronomy	Dimakis, Nicholas	Electrochemical and molecular hydrogen originated surface protonic for tunable hydro conversion bifunctional catalyst	National Science Foundation	\$ 136,661
Provost - Academic Affairs	Robert C. Vackar College of Business & Entrepreneurship	Information Systems	Qin, Hong	Improving employability for disadvantaged students through business analytics micro-credentials (MC)	Private/Foundation	\$ 20,000
Research, Graduate Studies and New Program Development	-	RESEARCH GRAD STUDIES NEW PGMS	Grewal, Parwinder	UTRGV First Cohort Program	National Institutes of Health (NIH)	\$ 15,154,839
<b>Grand Total</b>						<b>\$ 42,171,812</b>

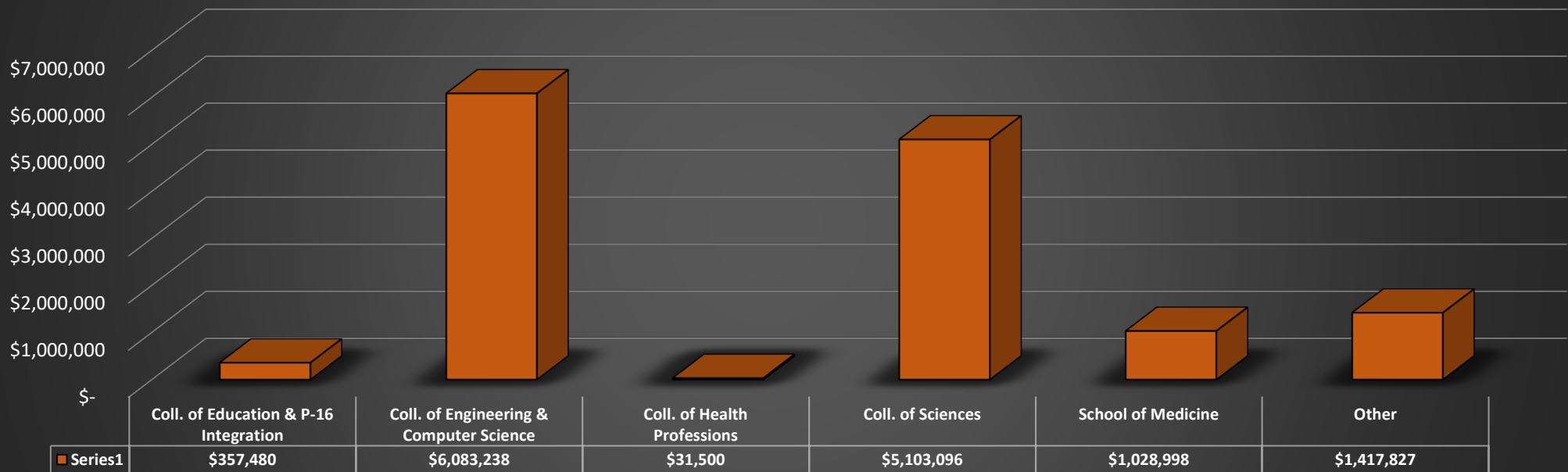
## The University of Texas Rio Grande Valley Awards by Schools/Colleges

Unit	SEP - FY2022 <i>Sep 1, 2021 - Sep 30, 2021</i>		FY2022 - YTD <i>Sep 1, 2021 - Sep 30, 2021</i>	
	Count	Funds Awarded	Count	Funds Awarded
<b>Finance &amp; Planning</b>	1	\$ 100,000	1	\$ 100,000
<b>Governmental &amp; Community Relations</b>	2	\$ 46,693	2	\$ 46,693
<b>Health Affairs</b>				
<i>School of Medicine</i>	3	\$ 1,028,998	3	\$ 1,028,998
<b>Provost - Academic Affairs</b>				
Provost - Academic Affairs (Non College)	1	\$ 25,000	1	\$ 25,000
<i>College of Education &amp; P-16 Integration</i>	1	\$ 357,480	1	\$ 357,480
<i>College of Engineering &amp; Computer Science</i>	2	\$ 6,083,238	2	\$ 6,083,238
<i>College of Health Professions</i>	3	\$ 31,500	3	\$ 31,500
<i>College of Sciences</i>	5	\$ 5,103,096	5	\$ 5,103,096
<b>Research, Graduate Studies &amp; New Program Development</b>	3	\$ 1,135,792	3	\$ 1,135,792
<b>Strategic Enrollment &amp; Student Affairs</b>	2	\$ 110,342	2	\$ 110,342
<b>Grand Total</b>	<b>23</b>	<b>\$ 14,022,139</b>	<b>23</b>	<b>\$ 14,022,139</b>

## Funds Awarded by Fiscal Year



## FY 22 Funds Awarded by College/Schools



The numbers represented in the charts above include amounts since the start of the fiscal year up to the date represented in each column.

**The University of Texas Rio Grande Valley**  
**Awards received in September**

Division	College/School	Department	PI Name	Award Title	Sponsor	Type of Project	Total
Finance and Administration	-	Child Development Center	Sanchez, Raquene	Child Care Local Match Contribution	Private/Foundation	New Award	\$ 100,000
Governmental and Community Relations	-	Business Development	Landez, Hector	UTRGV Procurement Technical Assistance Center	Defense Logistics Agency	Additional Funding	\$ 31,693
Governmental and Community Relations	-	Economic Development	Michael, Uhrbrock	Edinburg Economic Development	City of Edinburg	New Award	\$ 15,000
Health Affairs	School of Medicine	Human Genetics	Duggirala, Ravindranath	Identification of a marker and therapeutic target for pediatric obesity	Private/Foundation	New Award	\$ 150,000
Health Affairs	School of Medicine	Interprofessional Education	Ronnau, John	COVID-19 Health Disparities Grant	Department of State Health Services	New Award	\$ 818,998
Health Affairs	School of Medicine	Pediatrics	Escalona, Cristel	FY22 - SOM JAMP	University of Texas System Admin Office	New Award	\$ 60,000
Provost - Academic Affairs	-	Ofc of the Provost-Acad Affrs	Saladin, Shawn	Research Infrastructure Needs Assessment Survey	Langston University	Continuation	\$ 25,000
Provost - Academic Affairs	College of Education and P-16 Integration	Human Devt & School Services	Medrano, Hilda	FY22 Texas School Ready	University of Texas Health Science Center Houston	New Award	\$ 357,480
Provost - Academic Affairs	College of Engineering & Computer Science	Electrical & Computer Engineer	Domijan, Alexander	South Texas Industrial Assessment Center Consortium of Advanced Additive Manufacturing Research and Education for Energy Related Systems. (CA2REERs)	Energy Efficiency & Renewable Energy Department of Energy National Nuclear Security Administration	New Award	\$ 2,122,243
Provost - Academic Affairs	College of Engineering & Computer Science	Mfg & Industrial Engineering	Li, Jianzhi			New Award	\$ 3,960,995
Provost - Academic Affairs	College of Health Professions	Health & Biomedical Sciences	Chew, Sue Anne	Biomedical freshman research initiative	Private/Foundation	New Award	\$ 1,500
Provost - Academic Affairs	College of Health Professions	Health & Human Performance	Tai, Yu Lun	Cardiovascular and Metabolic function in healthy Hispanic adults with and without a family history of type 2 diabetes	Private/Foundation	New Award	\$ 1,500
Provost - Academic Affairs	College of Health Professions	Populatn Hlth & Biostatistics	Wang, Lin	Quest Fitness Assessment Project	Private/Foundation	New Award	\$ 28,500
Provost - Academic Affairs	College of Sciences	Biology	Deyoe, Hudson	FY22 Texas Beach Watch	Texas General Land Office	Continuation	\$ 98,000
Provost - Academic Affairs	College of Sciences	Biology	Dirrigl, Frank	Fruit fly eradication support in Lower Rio Grande Valley	Animal and Plant Health Inspection Service	New Award	\$ 164,557
Provost - Academic Affairs	College of Sciences	Biology	Feria, Teresa	TX FY21 Cactus Moth	U.S. Department of Agriculture	New Award	\$ 25,000

Division	College/School	Department	PI Name	Award Title	Sponsor	Type of Project	Total
Provost - Academic Affairs	College of Sciences	Biology	Sahoo, Nirakar	Emerging role of heme degradation products in the modulation of cardiac ion channels	National Institute of General Medical Sciences	New Award	\$ 435,900
Provost - Academic Affairs	College of Sciences	Sch of Earth Env & Marine Sci	Hicks, David	NOAA Cooperative Science Center for Coastal and Marine Ecosystems-II	Florida A&M University Board of Trustees	New Award	\$ 4,379,639
Research, Graduate Studies and New Program Development	-	Sustainable Agr & Rural Advncmt	Cruz-Reyes, Aisha	Improving SDA Participation in South TX	U.S. Department of Agriculture	New Award	\$ 99,066
Research, Graduate Studies and New Program Development	-	Sustainable Agr & Rural Advncmt	Cruz-Reyes, Aisha	South Texas Training and Outreach Project (STTOP)	U.S. Department of Agriculture	New Award	\$ 744,131
Research, Graduate Studies and New Program Development	-	Sustainable Agr & Rural Advncmt	Racelis, Alexis	BASE II: FIU-UTRGV-NMSU Consortium	The Florida International University Board of Trustees	New Subaward	\$ 292,595
Strategic Enrollment and Student Affairs	-	College Access & K-12 Partners	Villarreal, Leo	The University of Texas Rio Grande Valley Brownsville TS Project	US Department of Education	Continuation	\$ 85,342
Strategic Enrollment and Student Affairs	-	Stud Rights & Responsibilities	Stoves, Douglas	Addressing Food Insecurity on Campus Through UTRGV Student Food Pantry	Private/Foundation	New Award	\$ 25,000
<b>Grand Total</b>							<b>\$ 14,022,139</b>

FY2022 Awards Funded - By Funding Source  
September 1, 2021 - September 30, 2021

