



Office of Research and Sponsored Programs

October 28, 2021

TO: Dr. Carine Feyten, Chancellor and President
Dr. Carolyn Kapinus, Executive Vice President for Academic Affairs and Provost
Dr. Jason Tomlinson, Vice President for Finance and Administration
Dr. Monica Mendez-Grant, Vice President for Student Life
Dr. Barbara Lerner, Associate Provost for Undergraduate Studies and Academic Partnerships
Dr. Kimberly Russell, Vice President of University Advancement
Dr. Jennifer Martin, Executive Vice Provost
Dr. Holly Hansen-Thomas, Vice Provost for Research and Innovation and Dean of the Graduate School
Dr. Patricia Bowyer, Graduate Council Research Committee, Chair
Board of Regents

FROM: Ms. Tracy Lindsay, Director of Operations
Research and Sponsored Programs

RE: FY 2021 Annual Report on Proposal and Grant Activity for External Funding

Attached is the annual report on TWU's sponsored research, teaching, scholarship, and public service for fiscal year 2021 (September 1, 2020 through August 31, 2021). The report outlines external proposal and award activity through the Office of Research and Sponsored Programs (ORSP).

These sponsored projects encompass many types of activities funded by outside agencies: basic scientific research; applied research in nursing, allied health sciences, social sciences, and other areas; education and training programs in community and business settings; demonstration, model, or pilot projects; and creative activities. Sources of funding include federal, state, and private funding agencies. In addition, the formula funding granted by the federal CARES Act was processed through ORSP and is included in this report.

Proposals for grants and contracts are initiated by TWU faculty or staff and are reviewed by the department chair, director, or associate dean; the dean of the college; the Vice Provost for Research; and the Provost. Occasionally others are included in the review process, depending on the nature of the project or the instructions from the funding source. Proposals range in complexity from a request for support of a few hundred dollars from a professional association to an application for a million-dollar, multi-year project from a federal agency.

This report is divided into four sections. The first section presents varied breakdowns of externally-funded projects by campus, college, department, and principal investigator (or project director). The second section describes the proposals submitted for external funding; the third section provides information about research expenditures, while the fourth section includes information about facility and administrative (indirect) costs.

e-copy: Dr. Rosalie Mainous, Dean – College of Nursing
Dr. Christopher Ray, Dean – College of Health Sciences
Dr. Lisa Huffman, Dean – College of Professional Education
Dr. Abigail Tilton, Dean – College of Arts and Sciences
Dr. Rama Yelkur, Dean – College of Business
Dr. Donna Scott Tilley, Associate Dean for Research, Nursing
Dr. Jessica Gullion, Associate Dean for Research, Arts and Sciences
Dr. Kimberly Miloch, Associate Dean for Research, Health Sciences
Dr. Jorge Figueroa, Associate Dean for Research, Professional Education
Dr. Joshua Adams, Assistant Provost, Student Success
Ms. Deanna Titzler, Interim Associate Vice President – Marketing and Communications

**Annual Report on Proposal and Grant Activity
Office of Research and Sponsored Programs**

FY 2021 (September 1, 2020 – August 31, 2021)

I. Externally Funded Grants and Contracts

Total Grants Awarded

FY 2012: \$ 4,930,028	65 Awards
FY 2013: \$ 8,426,440	54 Awards
FY 2014: \$ 7,114,862	65 Awards
FY 2015: \$ 7,450,986	43 Awards
FY 2016: \$ 6,763,277	57 Awards
FY 2017: \$ 5,539,645	67 Awards
FY 2018: \$ 6,959,443	55 Awards
FY 2019: \$ 6,286,539	59 Awards
FY 2020: \$ 6,492,616	69 Awards
FY 2021: \$ 7,135,765	65 Awards

Research Grants Awarded

FY 2012: \$ 2,113,656	37 Awards
FY 2013: \$ 1,206,015	13 Awards
FY 2014: \$ 1,061,422	23 Awards
FY 2015: \$ 1,528,188	17 Awards
FY 2016: \$ 2,593,934	24 Awards
FY 2017: \$ 2,171,771	32 Awards
FY 2018: \$ 1,860,891	21 Awards
FY 2019: \$ 3,331,441	31 Awards
FY 2020: \$ 3,975,799	42 Awards
FY 2021: \$ 3,634,535	31 Awards

These numbers do not include the formula funding requested and received by the university through the CARES Act; the CARES Act funding is detailed in Section IV. The following section provides a more detailed breakdown of the external grants and contracts received through ORSP during FY 2021 and comparisons with FY 2020.

A. Distribution by College, Department, and Campus

Tables 1-4 illustrate the distribution of grant awards for each college, department, individual faculty member, and campus. For accounting purposes, the award is listed in the department of the principal investigator (PI). In the instances where the co-principal investigator (Co-PI) is from a different department or campus than the PI, the Co-PI's department is shown in parentheses.

**Table 1
Comparison of Funding by College/Other**

	2019-2020	2020-2021
Arts and Sciences	\$2,014,094	\$2,029,425
Health Sciences	\$1,746,198	\$1,958,700
Nursing	\$522,549	\$233,126
Professional Education	\$1,402,824	\$942,804
Other	\$806,951	\$1,971,710
TOTAL OF ALL AWARDS	\$6,492,616	\$7,135,765

Table 2
Comparison of Funding by College and Department

	2019-2020	2020-2021
ARTS AND SCIENCES		
Biology	\$690,829	\$1,066,749
Chemistry and Biochemistry	\$73,206	\$82,852
English, Speech & Foreign Languages	\$35,970	\$125,860
Mathematics & Computer Science	\$0	\$100,000
History and Political Science	\$481,500	\$395,000
Psychology and Philosophy	\$383,569	\$0
Social Work	\$349,020	\$258,964
Total Arts and Sciences	\$2,014,094	\$2,029,425
HEALTH SCIENCES		
Communication Sciences and Oral Health	\$588,906	\$392,517
Health Promotion and Kinesiology	\$681,362	\$464,687
Nutrition and Food Sciences	\$126,570	\$897,210
Nutrition and Food Sciences – Houston	\$13,347	\$0
Occupational Therapy – Dallas	\$306,229	\$25,330
Occupational Therapy – Denton	\$0	\$127,209
Occupational Therapy - Houston	\$19,284	\$18,244
Physical Therapy - Dallas	\$0	\$40,000
Physical Therapy - Houston	\$10,500	\$18,833
Total Health Sciences	\$1,746,198	\$1,958,700
NURSING		
Nursing	\$0	\$167,017
Nursing – Dallas	\$1,000	\$66,109
Nursing - Denton	\$206,155	\$0
Nursing - Houston	\$315,394	\$0
Total Nursing	\$522,549	\$233,126
PROFESSIONAL EDUCATION		
Human Development, Family Studies & Counseling	\$4,998	\$0
Library and Information Studies	\$46,911	\$0
Literacy and Learning	\$442,371	\$339,124
Teacher Education	\$908,544	\$603,680
Total Professional Education	\$1,402,824	\$942,804
OTHER		
Blagg-Huey Library	\$51,150	\$729
Research & Sponsored Programs	\$72,000	\$300,902
Student Life	\$293,054	\$471,303
Undergraduate Studies & Academic Partnerships	\$12,000	\$748,776
Woodcock Institute	\$378,747	\$450,000
Total Other	\$806,951	\$1,971,710
TOTAL OF ALL AWARDS	\$6,286,539	\$7,135,765

Table 3
Funding Distribution by College, Department, and Individual Faculty Member 2020-2021

For accounting purposes, the award is listed in the department of the principal investigator (PI). In the instances where the co-principal investigator (Co-PI) is from a different department or campus than the PI, the Co-PI's department is shown in parentheses.

Principal Investigator	Agency	Amount Awarded
ARTS and SCIENCES		
Biology		
Dr. Christopher Brower	HHS – National Institutes of Health	\$385,343
Dr. Diana Elrod, Dr. Karen Dunlap (Teacher Education), Dr. Robby Petros (Chemistry), & Dr. David Gardner (Computer Science)	National Science Foundation	\$198,805
Dr. Diana Elrod, Dr. Karen Dunlap (Teacher Education), Dr. David Gardner (Computer Science), Dr. Robby Petros (Chemistry), & Dr. Jorg Waltje (Center for Faculty Excellence)	National Science Foundation	\$481,601
Ms. Mafia Mahabub Rumpa & Dr. Camelia Maier	Native Plant Society	\$1,000
Subtotal Biology		\$1,066,749
Chemistry and Biochemistry		
Dr. Mary Anderson	Welch Foundation	\$5,000
Dr. Richard Sheardy	Joint Admission Medical Program Council (JAMP)	\$20,182
Dr. Nasrin Mirsaleh-Kohan	National Science Foundation	\$12,670
Dr. Richard Sheardy	Welch Foundation	\$45,000
Subtotal Chemistry and Biochemistry		\$82,852
English, Speech & Foreign Languages		
Dr. Gretchen Busl, Dr. Danielle Phillips- Cunningham (Gender Studies) & Ms. Julie Libersat (Visual Arts)	National Endowment for the Humanities	\$99,426
Dr. Jacquelyn E Hoermann-Elliott & Dr. Rachel Daugherty	U.S. Department of Education	\$26,434
Subtotal English, Speech & Foreign Languages		\$125,860
Mathematics & Computer Science		
Dr. Shawnda Smith & Dr. Jacquelyn E Hoermann-Elliott (English, Speech, and Foreign Languages)	Texas Higher Education Coordinating Board	\$100,000
Subtotal Mathematics & Computer Science		\$100,000
History and Political Science		
Dr. Jim Alexander	State of Texas	\$380,000
Dr. Christina Bejarano	Rutgers, The State University of New Jersey	\$15,000
Subtotal History and Political Science		\$395,000

Social Work		
Dr. Alex Colvin	HHS - Administration for Children and Families	\$218,881
Dr. Abigail Tilton (Arts and Sciences), Ms. Amy O'Keefe (Student Life), & Dr. Nila Ricks (Social Work)	HHS - Administration for Children and Families	\$40,083
Subtotal Social Work		\$258,964
Total Arts and Sciences		\$2,029,425

HEALTH SCIENCES		
Communication Sciences and Oral Health		
Dr. Tamby M. Allman	U.S. Department of Education	\$249,306
Dr. Erika Armstrong and Paula Chance	Texas Education Agency	\$143,211
Subtotal Communication Sciences and Oral Health		\$392,517
Health Promotion and Kinesiology		
Dr. Ann Amuta & Dr. Gabrielle Smith (Psychology & Philosophy)	HHS – National Institutes of Health	\$5,000
Dr. Vic Ben-Ezra	Flow Healthcare Foundation	\$8,000
Dr. Katherine Coffey	U.S. Department of Education	\$5,000
Dr. Suzanna Dillon, Dr. Ron Davis, Dr. Erika Armstrong (Communication Sciences and Oral Health), & Dr. Gwendolyn Weatherford	U.S. Department of Education	\$246,964
Dr. Suzanna Dillon	U.S. Department of Education	\$148,348
Dr. Brandon R Rigby and Dr. Heather Roberts (Occupational Therapy)	Human Animal Bond Institute	\$50,375
Ms. Noelle Tuttle & Dr. Young-Hoo Kwon	International Society of Biomechanics	\$1,000
Subtotal Health Promotion and Kinesiology		\$464,687
Nutrition & Food Sciences		
Dr. Shane Broughton & Dr. Jyutika Mehta (Communication Sciences and Disorders)	City of Denton	\$47,600
Dr. Xiaofen Du	U.S. Department of Agriculture	\$500,000
Dr. Xiaofen Du	Truco Enterprises	\$5,355
Dr. Helen Everts	HHS – National Institutes of Health	\$39,147
Dr. Shanil Juma & Dr. Kathleen E. Davis	California Walnut Commission	\$246,324
Dr. Shanil Juma & Anthony Duplanty (Kinesiology)	National Mango Board	\$58,784
Subtotal Nutrition & Food Sciences		\$897,210
Occupational Therapy (OT) – Denton		
Dr. Suzanne Burns & Dr. Noralyn Pickens	HHS – Administration for Community Living	\$20,000
Dr. Noralyn Pickens	TWU Foundation – Jean A. Spencer Foundation	\$5,330
Dr. Suzanne Burns & Noralyn Pickens	HHS – Health Resources and Services Administration	\$101,879
Subtotal OT - Denton		\$127,209

Occupational Therapy (OT) – Houston		
Dr. Patricia Bowyer	HHS – Health Resources and Services Administration	\$18,244
Subtotal OT – Houston		\$18,244
Physical Therapy (PT) – Dallas		
Dr. Alyssa Fiss	Foundation for Physical Therapy	\$40,000
Subtotal Physical Therapy – Dallas		\$40,000
Physical Therapy (PT) – Houston		
Dr. Jennifer Bogardus	The Marfan Foundation	\$10,000
Dr. Rupal Patel	American Physical Therapy Association	\$8,833
Subtotal Physical Therapy – Houston		\$18,833
Total Health Sciences		\$1,958,700

NURSING		
Nursing		
Dr. Donna Scott Tilley	HHS – Health Resources & Services Administration	\$167,017
Subtotal Nursing		\$167,017
Nursing – Dallas		
Dr. Cory Church	Medical City Healthcare	\$48,000
Dr. Chin-Nu Lin	National Science Foundation	\$18,109
Subtotal Nursing – Dallas		\$66,109
Total Nursing		\$233,126

PROFESSIONAL EDUCATION		
Literacy and Learning		
Dr. Mary Amanda (Mandy) Stewart and Dr. Holly Hansen-Thomas	U.S. Department of Education	\$339,124
Subtotal Literacy and Learning		\$339,124
Teacher Education		
Dr. Jorge Figueroa, Dr. Gina Anderson, Dr. Laura Trujillo-Jenks, & Dr. Lisa Huffman	Texas Higher Education Coordinating Board	\$78,571
Dr. Rebecca Fredrickson & Dr. Sarah McMahan	U.S. Department of Education	\$131,986
Dr. Rebecca Fredrickson, Dr. Laura Trujillo-Jenks & Dr. Lisa Huffman	United Way of Greater Austin	\$75,000
Dr. Holly Hansen-Thomas, Dr. Mary Amanda (Mandy) Stewart (Literacy and Learning) & Dr. Annette Torres Elias (Literacy and Learning)	U.S. Department of Education	\$318,123
Subtotal Teacher Education		\$603,680
Total Professional Education		\$942,804

OTHER		
Blagg-Huey Library		
Ms. Kristine Reed	Institute of Museum and Library Services	\$729
Subtotal Blagg-Huey Library		\$729

Research & Sponsored Programs		
Dr. Holly Hansen-Thomas	U.S. Department of Education	\$225,000
Dr. Wanyi Wang	HHS – National Institutes of Health	\$3,902
Dr. Paul Yeatts	HHS – Office of Minority Health	\$72,000
Subtotal Research & Sponsored Programs		\$300,902
Student Life		
Dr. Stephanie Brown & Ms. Amy Allison	U.S. Department of Justice	\$88,187
Dr. Monica-Mendez-Grant, Dr. Stephanie Krauth & Dr. Becky Rodriguez	Texas Higher Education Coordinating Board	\$51,324
Ms. Amy Eileen O’Keefe & Dr. Catherine Dutton (Human Development, Family Studies, and Counseling)	U.S. Department of Education	\$270,792
Ms. Sara Lilly	USA Artistic Swimming Foundation	\$1,000
Ms. Laura Shackelford	Career Connections Center	\$60,000
Subtotal Student Life		\$471,303
Undergraduate Studies & Academic Partnerships		
Dr. Barbara Lerner & Dr. Holly Hansen-Thomas	U.S. Department of Education	\$112,500
Dr. Barbara Lerner & Dr. Holly Hansen-Thomas	U.S. Department of Education	\$112,500
Dr. Theresa Lindsay & Dr. Joshua Adams	U.S. Department of Education	\$261,888
Dr. Theresa Lindsay & Dr. Joshua Adams	U.S. Department of Education	\$261,888
Subtotal Undergraduate Studies & Academic Partnerships		\$748,776
Woodcock Institute		
Dr. Daniel Miller	TWU Foundation – Richard W. Woodcock Endowment Fund	\$450,000
Subtotal Woodcock Institute		\$450,000
Total Other		\$1,971,710
TOTAL OF ALL AWARDS		\$7,135,765

**Table 4
Comparison of Funding by Campus**

Location	2019-2020	2020-2021
Dallas Campus	\$307,229	\$106,109
Denton Campus	\$5,826,862	\$6,992,579
Houston Campus	\$358,525	\$37,077
TOTAL	\$6,492,616	\$7,135,765

B. Distribution by Funding Source

Tables 5 and 6 provide a breakdown of funding by agency type.

**Table 5
Comparison of Funding by Type of Funding Source**

	2019-2020		2020-2021	
Federal	\$4,183,500	64.4%	\$5,240,876	73.5%
Private	\$684,326	10.5%	\$1,059,001	14.8%
State	\$1,574,390	24.3%	\$773,288	10.8%
Other	\$50,400	0.8%	\$62,600	0.9%
TOTAL	\$6,492,616	100.0%	\$7,135,765	100.0%

**Table 6
External Funding Agencies Supporting Research and Sponsored Projects at TWU during FY 2021**

Agency	# of awards	Total Amount
FEDERAL FUNDING		
HHS – Administration for Children and Families	2	\$258,964
HHS – Administration for Community Living	2	\$121,879
HHS – Health Resources & Services Administration	2	\$185,261
HHS – National Institutes of Health	4	\$433,392
HHS – Office of Minority Health	1	\$72,000
Institute of Museum and Library Services	1	\$729
National Endowment for the Humanities	1	\$99,426
National Science Foundation	4	\$711,185
U.S. Department of Agriculture	1	\$500,000
U.S. Department of Education	17	\$2,769,853
U.S. Department of Justice	1	\$88,187
TOTAL FEDERAL FUNDING	36	\$5,240,876
PRIVATE FUNDING		
American Physical Therapy Foundation	1	\$8,833
California Walnut Commission	1	\$246,324
Flow Healthcare Foundation	1	\$8,000
Foundation for Physical Therapy	1	\$40,000
Human Animal Bond Institute	1	\$50,375
International Society of Biomechanics	1	\$1,000
Medical City Healthcare	1	\$48,000
National Mango Board	1	\$58,784
Native Plant Society of Texas	1	\$1,000
The Marfan Foundation	1	\$10,000

PRIVATE FUNDING		
Truco Enterprises	1	\$5,355
TWU Foundation – Jean A Spencer Research Award	1	\$5,330
TWU Foundation – Richard W. Woodcock	1	\$450,000
United Way of Greater Austin	1	\$75,000
USA Artistic Swimming Foundation	1	\$1,000
Welch Foundation	2	\$50,000
TOTAL PRIVATE FUNDING	17	\$1,059,001

STATE FUNDING		
Joint Admission Medical Program Council	4	\$20,182
State of Texas	1	\$380,000
Texas Education Agency	1	\$143,211
Texas Higher Education Coordinating Board	3	\$229,895
TOTAL STATE FUNDING	9	\$773,288

OTHER FUNDING		
City of Denton	2	\$47,600
Rutgers, The State University of New Jersey	1	\$15,000
TOTAL STATE FUNDING	3	\$62,600

TOTAL	65	\$7,135,765
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C. Distribution by Project Type

Table 7 provides a breakdown of funding by project type. State accountability measures focus on research funding and related expenditures.

**Table 7
Comparison of Awards by Project Type**

	2019-2020		2020-2021	
	Number of Awards	Amount of Awards	Number of Awards	Amount of Awards
Institutional Support	1	\$41,582	4	\$286,000
Instruction	13	\$1,287,668	16	\$1,805,102
Research	42	\$3,975,799	31	\$3,634,535
Scholarship or Fellowship	3	\$215,415	5	\$521,912
Service	10	\$972,152	9	\$888,216
TOTAL	69	\$6,492,616	65	\$7,135,765

II. Proposals Submitted for External Funding

Total Proposals Submitted (All Types)

FY 2012: \$ 22,588,056	74 Submitted
FY 2013: \$ 12,365,076	73 Submitted
FY 2014: \$ 34,950,606	74 Submitted
FY 2015: \$ 22,773,865	83 Submitted
FY 2016: \$ 28,084,897	87 Submitted
FY 2017: \$ 30,020,496	102 Submitted
FY 2018: \$ 39,398,483	112 Submitted
FY 2019: \$ 34,062,653	116 Submitted
FY 2020: \$ 28,911,248	111 Submitted
FY 2021: \$ 31,697,560	106 Submitted

Research Proposals Submitted

FY 2012: \$ 7,720,448	42 Submitted
FY 2013: \$ 6,982,672	46 Submitted
FY 2014: \$ 13,756,834	45 Submitted
FY 2015: \$ 14,119,690	60 Submitted
FY 2016: \$ 15,329,988	56 Submitted
FY 2017: \$ 22,689,597	66 Submitted
FY 2018: \$ 30,869,118	80 Submitted
FY 2019: \$ 23,776,695	90 Submitted
FY 2020: \$ 20,905,910	88 Submitted
FY 2021: \$ 26,047,917	79 Submitted

Following is a more detailed breakdown of proposals submitted in FY 2020 compared with the previous fiscal year.

Table 8
Comparison of Proposal Submissions by Type of Funding Source

	2019-2020		2020-2021	
	Number of Proposals	Amount Requested	Number of Proposals	Amount Requested
Federal	64	\$23,704,608	60	\$26,821,664
State	7	\$1,095,024	3	\$512,479
Private	39	\$4,071,616	40	\$4,183,417
Other	1	\$40,000	3	\$180,000
TOTAL	111	\$28,911,248	106	\$31,697,560

Table 9
Comparison of Proposal Submissions by Project Type

	2019-2020		2020-2021	
	Number of Proposals	Amount Requested	Number of Proposals	Amount Requested
Institutional Support	0	\$0	2	\$151,400
Instruction	8	\$3,384,400	10	\$3,256,624
Research	88	\$20,905,910	79	\$26,047,917
Scholarship or Fellowship	2	\$3,434,303	4	\$1,357,538
Service	13	\$1,186,635	11	\$884,081
TOTAL	111	\$28,911,248	106	\$31,697,560

Table 10
Comparison of Proposal Submissions by College

	2019-2020		2020-2021	
	Number of Proposals	Amount Requested	Number of Proposals	Amount Requested
Arts and Sciences	30	\$10,192,253	36	\$12,994,749
Business	2	\$160,209	0	\$0
Health Sciences	47	\$9,127,997	35	\$4,158,123
Nursing	20	\$6,299,550	14	\$7,405,207
Other	7	\$2,784,400	12	\$1,660,407
Professional Education	5	\$346,839	9	\$5,479,074
TOTAL	111	\$28,911,248	106	\$31,697,560

Tables 11 and 12 provide the funding rate for the proposals submitted for the past 5 fiscal years.

Table 11
Funding Rate of All Proposals Submitted

	Total # Submitted	Proposals Awarded	Proposals Not Awarded	Funding Rate
FY 2016	87	32	55	36.78%
FY 2017	102	38	64	37.25%
FY 2018	112	31	81	27.68%
FY 2019	116	40	76	34.48%
FY 2020	111	37	74	33.33%
FY 2021	106	*	*	*

* Data not yet complete

Table 12
Funding Rate of All Research Proposals Submitted

	Total # Submitted	Proposals Awarded	Proposals Not Awarded	Funding Rate
FY 2016	57	16	41	28.07%
FY 2017	66	18	48	27.27%
FY 2018	80	18	62	22.50%
FY 2019	90	23	67	25.56%
FY 2020	88	23	65	26.14%
FY 2021	106	*	*	*

* Data not yet complete

Table 13
Funding Rate of Federal Proposals Submitted

	Total # Submitted	Proposals Awarded	Proposals Not Awarded	Funding Rate
FY 2016	49	15	34	30.61%
FY 2017	51	16	35	31.37%
FY 2018	47	12	35	25.53%
FY 2019	51	14	37	27.45%
FY 2020	64	19	45	29.69%
FY 2021	106	*	*	*

* Data not yet complete

III. Active Projects

Table 14 provides the total amount of active grants each fiscal year by project type based on the beginning date and end date of a budget period.

Table 14
Active Awards

	Research	Instruction	Scholarship/ Fellowship	Service	Institutional Support	TOTAL
FY 2016	\$4,973,469	\$7,630,604	\$2,315,044	\$1,429,952	\$240,400	\$16,589,469
FY 2017	\$6,400,793	\$6,171,607	\$2,151,085	\$1,760,642	\$211,356	\$16,695,483
FY 2018	\$7,552,526	\$5,459,015	\$2,434,623	\$1,555,583	\$130,000	\$17,161,747
FY 2019	\$6,546,796	\$4,547,425	\$2,095,340	\$1,519,701	\$122,000	\$14,831,262
FY 2020	\$8,203,169	\$2,670,200	\$1,259,370	\$1,267,566	\$92,582	\$13,492,887
FY 2021	\$9,023,605	\$3,412,815	\$1,022,343	\$1,538,158	\$328,582	\$15,325,503

IV. CARES Funding

Beginning in spring 2020, TWU applied for and received formula funding through the CARES Act: Higher Education Emergency Relief Fund (HEERF). The HEERF provided fast and direct economic aid to the American people negatively impacted by the COVID-19 pandemic and could be used to cover costs associated with significant changes to the delivery of instruction due to the coronavirus and expand support for students with the most significant financial needs arising from the coronavirus pandemic. These funds are primarily managed through the Office of the Controller.

V. Research Expenditures

Research expenditures include all funds spent by TWU to support research. The Texas Higher Education Coordinating Board's accountability system includes research activity among its indicators. Four state accountability measures relate to the amount of research expenditures reported. The first column below shows total research expenditures, including state-appropriated research funds, indirect costs, external awards, and pass-through funds to other entities with whom TWU collaborates on projects. Note that research expenditure amounts for FY 2018 will not be available until late fall.

Total Research Expenditures

FY 2012: \$ 3,853,991
 FY 2013: \$ 2,562,078
 FY 2014: \$ 2,497,818
 FY 2015: \$ 2,199,947
 FY 2016: \$ 2,878,451
 FY 2017: \$ 3,937,973
 FY 2018: \$ 4,821,988
 FY 2019: \$ 4,252,624
 FY 2020: \$ 4,134,695
 FY 2021: data not yet available

Federal Research Expenditures

FY 2012: \$ 1,908,240
 FY 2013: \$ 1,136,427
 FY 2014: \$ 960,889
 FY 2015: \$ 722,307
 FY 2016: \$ 573,354
 FY 2017: \$ 944,627
 FY 2018: \$ 1,040,465
 FY 2019: \$ 1,864,021
 FY 2020: \$ 1,700,481
 FY 2021: data not yet available

VI. Comprehensive Research Funds (CRF)

The Texas comprehensive research fund provides funding from the Texas Higher Education Coordinating Board per [Subchapter E, Sec. 62.091 of the Texas Education Code](#) to promote increased research capacity. The amount is appropriated based on the average amount of restricted research funds expended by each institution per year for the three preceding state fiscal years.

Fiscal Year	Restricted Expenditures	Amount of CRF
FY 2012	\$1,406,182	\$133,076
FY 2013	\$1,521,421	\$133,076
FY 2014	\$1,381,269	\$146,731
FY 2015	\$1,151,951	\$146,731
FY 2016	\$1,331,324	\$135,042
FY 2017	\$1,790,835	\$135,042
FY 2018	\$2,244,224	\$107,572
FY 2019	\$3,554,493	\$107,572
FY 2020	\$3,062,936	\$152,152
FY 2021	data not available	\$152,152

VII. Facilities and Administrative (Indirect) Costs

TWU's on-campus federally-negotiated facilities and administrative (F&A) rate during FY 2021 was 42.7% of salaries and wages. The amount of F&A recovered for FY 2012 – FY 2021 is listed below.

FY 2012	\$ 373,547.58
FY 2013	\$ 453,650.30
FY 2014	\$ 521,994.51
FY 2015	\$ 567,325.97
FY 2016	\$ 604,431.60
FY 2017	\$ 544,562.26
FY 2018	\$ 480,409.03
FY 2019	\$ 395,008.33
FY 2020	\$ 322,245.29
FY 2021	\$ 363,957.41