

Form **990-PF**Department of the Treasury  
Internal Revenue Service

# Return of Private Foundation or Section 4947(a)(1) Trust Treated as Private Foundation

- ▶ Do not enter social security numbers on this form as it may be made public  
▶ Information about Form 990-PF and its separate instructions is at [www.irs.gov/form990pf](http://www.irs.gov/form990pf)

OMB No 1545-0052

**2016**

Open to Public Inspection

For calendar year 2016 or tax year beginning Sep 1, 2016, and ending Aug 31, 2017

Name of foundation:

The Robert A. Welch Foundation

Number and street (or P.O. box number if mail is not delivered to street address)

5555 San Felipe

Room/suite

1900

City or town, state or province, country, and ZIP or foreign postal code

Houston TX 77056-2730

G Check all that apply

☐ Initial return☐ Final return☐ Address change☐ Initial return of a former public charity☐ Amended return☐ Name change

H Check type of organization

☒ Section 501(c)(3) exempt private foundation☐ Section 4947(a)(1) nonexempt charitable trust☐ Other taxable private foundationI Fair market value of all assets at end of year  
(from Part II, column (c), line 16)

\$ 687,605,873.

J Accounting method

☐ Cash☒ Accrual☐ Other (specify)

(Part I, column (d) must be on cash basis)

A Employer identification number

76-0343128

B Telephone number (see instructions)

(713) 961-9884

C If exemption application is pending, check here

D 1 Foreign organizations, check here

2 Foreign organizations meeting the 85% test, check here and attach computation

E If private foundation status was terminated under section 507(b)(1)(A), check here

F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here

**Part I Analysis of Revenue and Expenses**

(The total of amounts in columns (b), (c), and (d) may not necessarily equal the amounts in column (a) (see instructions))

(a) Revenue and expenses per books

(b) Net investment income

(c) Adjusted net income

(d) Disbursements for charitable purposes (cash basis only)

1 Contributions, gifts, grants, etc. received (attach schedule)

0.

2 Check ☒ if the foundation is not required to attach Sch. B

3 Interest on savings and temporary cash investments

76,481.

76,481.

4 Dividends and interest from securities

4,485,260.

13,134,377.

5a Gross rents

200.

200.

b Net rental income or (loss)

200.

6a Net gain or (loss) from sale of assets not on line 10

29,526,776.

b Gross sales price for all assets on line 6a

145,463,148.

7 Capital gain net income (from Part IV, line 2)

18,741,658.

8 Net short-term capital gain

9 Income modifications

10a Gross sales less returns and allowances

b Less Cost of goods sold

c Gross profit or (loss) (attach schedule)

11 Other income (attach schedule)

Schedule 8

1,343,432.

3,767,547.

12 Total. Add lines 1 through 11

35,432,149.

35,720,263.

13 Compensation of officers, directors, trustees, etc.

646,230.

395,964.

253,831.

14 Other employee salaries and wages

680,898.

371,081.

311,931.

15 Pension plans, employee benefits

420,009.

234,092.

174,165.

16a Legal fees (attach schedule)

14,598.

8,468.

6,129.

b Accounting fees (attach sch)

85,525.

40,213.

42,763.

c Other professional fees (attach sch)

3,675,560.

6,180,175.

33,110.

17 Interest

18 Taxes (attach schedule) (see instrs)

207,478.

506,894.

19 Depreciation (attach schedule) and depletion

3,620.

9,410.

20 Occupancy

461,880.

234,149.

227,731.

21 Travel, conferences, and meetings

15,091.

12,556.

2,535.

22 Printing and publications

21,691.

2,169.

19,522.

23 Other expenses (attach schedule)

800,899.

437,773.

648,935.

24 Total operating and administrative expenses. Add lines 13 through 23

7,033,479.

8,432,944.

1,720,652.

25 Contributions, gifts, grants paid

28,931,906.

29,899,732.

26 Total expenses and disbursements. Add lines 24 and 25

35,965,385.

8,432,944.

31,620,384.

27 Subtract line 26 from line 12

a Excess of revenue over expenses and disbursements

-533,236.

b Net investment income (if negative, enter -0-)

27,287,319.

c Adjusted net income (if negative, enter -0-)

Part II Balance Sheets		Attached schedules and amounts in the description column should be for end-of-year amounts only (See instructions)		Beginning of year	End of year	
				(a) Book Value	(b) Book Value	(c) Fair Market Value
ASSETS	1	Cash — non-interest-bearing . . .		3,700	3,700	3,700
	2	Savings and temporary cash investments		10,531,375.	8,262,451	8,262,451
	3	Accounts receivable . . . . .	203,540.			
		Less allowance for doubtful accounts		290,488.	203,540	203,540.
	4	Pledges receivable . . . . .				
		Less allowance for doubtful accounts				
	5	Grants receivable				
	6	Receivables due from officers, directors, trustees, and other disqualified persons (attach schedule) (see instructions)				
	7	Other notes and loans receivable (attach sch)				
		Less allowance for doubtful accounts				
	8	Inventories for sale or use . . . . .				
	9	Prepaid expenses and deferred charges . . . . .				
	10a	Investments — U S and state government obligations (attach schedule)	Sched. 4a.	52,402,916.	57,256,932	57,399,253
	b	Investments — corporate stock (attach schedule)	Sched. 4b	315,828,716.	299,119,856	397,182,271
	c	Investments — corporate bonds (attach schedule)	Sched. 4c	13,694,932.	10,388,115	17,164,642
	11	Investments — land buildings, and equipment basis				
	Less accumulated depreciation (attach schedule)					
12	Investments — mortgage loans					
13	Investments — other (attach schedule)	Sched. 4c	159,804,690.	176,216,920.	205,503,983	
14	Land, buildings, and equipment basis		1,068,106.			
	Less accumulated depreciation (attach schedule)		1,008,206.	63,520.	59,900	
15	Other assets (describe)	Sched. 4	1,646,343.	1,833,461.	1,826,133.	
16	Total assets (to be completed by all filers — see the instructions Also, see page 1, item i).		554,266,680.	553,344,905	687,605,873.	
LIABILITIES	17	Accounts payable and accrued expenses . . . . .		1,103,610.	1,312,637.	
	18	Grants payable		20,477,500.	20,046,750.	
	19	Deferred revenue				
	20	Loans from officers, directors, trustees, & other disqualified persons				
	21	Mortgages and other notes payable (attach schedule)				
	22	Other liabilities (describe)		1,077,887.	2,196,044.	
	23	Total liabilities (add lines 17 through 22)		22,658,997.	23,555,431.	
NET ASSETS OR FUND BALANCES	Foundations that follow SFAS 117, check here and complete lines 24 through 26 and lines 30 and 31 <input checked="" type="checkbox"/>					
	24	Unrestricted . . . . .		-21,585,455.	-21,310,608.	
	25	Temporarily restricted . . . . .		492,458.	501,900.	
	26	Permanently restricted . . . . .		552,700,680.	550,598,182.	
	Foundations that do not follow SFAS 117, check here and complete lines 27 through 31. <input type="checkbox"/>					
	27	Capital stock, trust principal, or current funds . . . . .				
	28	Paid-in or capital surplus, or land, bldg, and equipment fund . . . . .				
	29	Retained earnings, accumulated income, endowment, or other funds . . . . .				
	30	Total net assets or fund balances (see instructions) . . . . .		531,607,683.	529,789,474.	
	31	Total liabilities and net assets/fund balances (see instructions) . . . . .		554,266,680.	553,344,905.	

## Part III Analysis of Changes in Net Assets or Fund Balances

1	Total net assets or fund balances at beginning of year — Part II, column (a), line 30 (must agree with end-of-year figure reported on prior year's return)	1	531,607,683
2	Enter amount from Part I, line 27a	2	-533,236
3	Other increases not included in line 2 (itemize) <u>Schedule 5</u>	3	20,434
4	Add lines 1, 2, and 3	4	531,094,881
5	Decreases not included in line 2 (itemize) <u>Schedule 5</u>	5	1,305,407.
6	Total net assets or fund balances at end of year (line 4 minus line 5) — Part II, column (b), line 30	6	529,789,474

**Part IV Capital Gains and Losses for Tax on Investment Income**

(a) List and describe the kind(s) of property sold (e.g., real estate, 2-story brick warehouse, or common stock, 200 shares MLC Company)		(b) How acquired P — Purchase D — Donation	(c) Date acquired (mo day yr)	(d) Date sold (mo day yr)
1 a				
b				
c				
d				
e				
(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) (e) plus (f) minus (g)	
a				
b				
c				
d				
e				
Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69			(i) Gains (Col (h) gain minus col (k), but not less than -0-) or Losses (from col (h))	
(i) F M V as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col (i) over col (j), if any		
a				
b				
c				
d				
e				
2 Capital gain net income or (net capital loss)	<div style="border: 1px solid black; padding: 2px;">           If gain, also enter in Part I, line 7            If (loss), enter -0- in Part I, line 7         </div>		2	18,741,658
3 Net short-term capital gain or (loss) as defined in sections 1222(5) and (6)	<div style="border: 1px solid black; padding: 2px;">           If gain, also enter in Part I, line 8, column (c) (see instructions) If (loss), enter -0-            in Part I, line 8         </div>		3	5,498,763

**Part V Qualification Under Section 4940(e) for Reduced Tax on Net Investment Income**

(For optional use by domestic private foundations subject to the section 4940(a) tax on net investment income)

If section 4940(d)(2) applies, leave this part blank

Was the foundation liable for the section 4942 tax on the distributable amount of any year in the base period?

☐ Yes
 ☒ No

If 'Yes,' the foundation does not qualify under section 4940(e). Do not complete this part.

1 Enter the appropriate amount in each column for each year, see the instructions before making any entries

(a) Base period years Calendar year (or tax year beginning in)	(b) Adjusted qualifying distributions	(c) Net value of noncharitable-use assets	(d) Distribution ratio (col (b) divided by col (c))
2015	33,386,689.	627,817,495.	0.053179
2014	32,368,632.	672,835,680.	0.048108
2013	30,456,259.	671,739,597.	0.045339
2012	29,193,444	622,528,431.	0.046895
2011	24,738,043	585,055,132.	0.042283
2 Total of line 1, column (d)			2 0.235804
3 Average distribution ratio for the 5-year base period — divide the total on line 2 by 5, or by the number of years the foundation has been in existence if less than 5 years			3 0.047161
4 Enter the net value of noncharitable-use assets for 2016 from Part X, line 5.			4 656,530,618.
5 Multiply line 4 by line 3			5 30,962,641.
6 Enter 1% of net investment income (1% of Part I, line 27b)			6 272,873
7 Add lines 5 and 6			7 31,235,514
8 Enter qualifying distributions from Part XII, line 4			8 31,620,384

If line 8 is equal to or greater than line 7, check the box in Part VI, line 1b, and complete that part using a 1% tax rate. See the Part VI instructions.

**Part VI Excise Tax Based on Investment Income** (Section 4940(a), 4940(b), 4940(e), or 4948 — see instructions)

1 a Exempt operating foundations described in section 4940(d)(2), check here <input type="checkbox"/> and enter 'N/A' on line 1 Date of ruling or determination letter _____ (attach copy of letter if necessary — see instructions)		1	272,873
b Domestic foundations that meet the section 4940(e) requirements in Part V, check here <input checked="" type="checkbox"/> and enter 1% of Part I, line 27b			
c All other domestic foundations enter 2% of line 27b. Exempt foreign organizations enter 4% of Part I, line 12, col. (b)			
2 Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)		2	0
3 Add lines 1 and 2.		3	272,873
4 Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only. Others enter -0-)		4	0
5 Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-		5	272,873
6 Credits/Payments			
a 2016 estimated tax pmts and 2015 overpayment credited to 2016	6 a	667,970.	
b Exempt foreign organizations — tax withheld at source	6 b		
c Tax paid with application for extension of time to file (Form 8868)	6 c		
d Backup withholding erroneously withheld	6 d		
7 Total credits and payments. Add lines 6a through 6d	7	667,970.	
8 Enter any penalty for underpayment of estimated tax. Check here <input checked="" type="checkbox"/> if Form 2220 is attached	8		
9 Tax due. If the total of lines 5 and 8 is more than line 7, enter amount owed	9		
10 Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid	10	395,097	
11 Enter the amount of line 10 to be Credited to 2017 estimated tax	11	395,097.	Refunded

**Part VII-A Statements Regarding Activities**

	Yes	No
1 a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?		X
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes (see Instructions for the definition)?		X
If the answer is 'Yes' to 1a or 1b, attach a detailed description of the activities and copies of any materials published or distributed by the foundation in connection with the activities		
c Did the foundation file Form 1120-POL for this year?		X
d Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation \$ _____ (2) On foundation managers \$ _____		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers \$ _____		
2 Has the foundation engaged in any activities that have not previously been reported to the IRS? If 'Yes,' attach a detailed description of the activities		X
3 Has the foundation made any changes, not previously reported to the IRS, in its governing instrument, articles of incorporation, or bylaws, or other similar instruments? If 'Yes,' attach a conformed copy of the changes	X	
4 a Did the foundation have unrelated business gross income of \$1,000 or more during the year?	X	
b If 'Yes,' has it filed a tax return on Form 990-T for this year?	X	
5 Was there a liquidation, termination, dissolution, or substantial contraction during the year? If 'Yes,' attach the statement required by General Instruction T		X
6 Are the requirements of section 508(e) (relating to sections 4941 through 4945) satisfied either: • By language in the governing instrument, or • By state legislation that effectively amends the governing instrument so that no mandatory directions that conflict with the state law remain in the governing instrument?	X	
7 Did the foundation have at least \$5,000 in assets at any time during the year? If 'Yes,' complete Part II, col. (c), and Part XIV	X	
8 a Enter the states to which the foundation reports or with which it is registered (see instructions) TEXAS		
b If the answer is 'Yes' to line 7, has the foundation furnished a copy of Form 990-PF to the Attorney General (or designate) of each state as required by General Instruction G? If 'No,' attach explanation	X	
9 Is the foundation claiming status as a private operating foundation within the meaning of section 4942(j)(3) or 4942(j)(5) for calendar year 2016 or the taxable year beginning in 2016 (see instructions for Part XIV)? If 'Yes,' complete Part XIV		X
10 Did any persons become substantial contributors during the tax year? If 'Yes,' attach a schedule listing their names and addresses		X

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**Part VII-A Statements Regarding Activities (continued)**

	Yes	No
11 At any time during the year, did the foundation, directly or indirectly, own a controlled entity within the meaning of section 512(b)(13)? If 'Yes,' attach schedule (see instructions)	<input checked="" type="checkbox"/>	
12 Did the foundation make a distribution to a donor advised fund over which the foundation or a disqualified person had advisory privileges? If 'Yes,' attach statement (see instructions)		<input checked="" type="checkbox"/>
13 Did the foundation comply with the public inspection requirements for its annual returns and exemption application?	<input checked="" type="checkbox"/>	
Website address <u>welch1.org</u>		
14 The books are in care of <u>Norbert Dittich</u> Telephone no <u>(713) 961-9884</u>		
Located at <u>5555 San Felipe, Suite 1900 Houston TX</u> ZIP + 4 <u>77056-2730</u>		
15 Section 4947(a)(1) nonexempt charitable trusts filing Form 990-PF in lieu of Form 1041 - Check here		<input type="checkbox"/>
and enter the amount of tax-exempt interest received or accrued during the year <u>15</u>		
16 At any time during calendar year 2016, did the foundation have an interest in or a signature or other authority over a bank, securities, or other financial account in a foreign country?		<input checked="" type="checkbox"/>
See the instructions for exceptions and filing requirements for FinCEN Form 114. If 'Yes,' enter the name of the foreign country		

**Part VII-B Statements Regarding Activities for Which Form 4720 May Be Required**

File Form 4720 if any item is checked in the 'Yes' column, unless an exception applies

	Yes	No
1 a During the year did the foundation (either directly or indirectly)		
(1) Engage in the sale or exchange, or leasing of property with a disqualified person?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(2) Borrow money from, lend money to, or otherwise extend credit to (or accept it from) a disqualified person?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(3) Furnish goods, services, or facilities to (or accept them from) a disqualified person?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(4) Pay compensation to, or pay or reimburse the expenses of, a disqualified person?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
(5) Transfer any income or assets to a disqualified person (or make any of either available for the benefit or use of a disqualified person)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(6) Agree to pay money or property to a government official? (Exception: Check 'No' if the foundation agreed to make a grant to or to employ the official for a period after termination of government service, if terminating within 90 days.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
b If any answer is 'Yes' to 1a(1)-(6), did any of the acts fail to qualify under the exceptions described in Regulations section 53.4941(d)-3 or in a current notice regarding disaster assistance (see instructions)?		<input checked="" type="checkbox"/>
Organizations relying on a current notice regarding disaster assistance check here		<input type="checkbox"/>
c Did the foundation engage in a prior year in any of the acts described in 1a, other than excepted acts, that were not corrected before the first day of the tax year beginning in 2016?		<input checked="" type="checkbox"/>
2 Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5))		
a At the end of tax year 2016, did the foundation have any undistributed income (lines 6d and 6e, Part XIII) for tax year(s) beginning before 2016?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If 'Yes,' list the years <u>20</u> , <u>20</u> , <u>20</u> , <u>20</u>		
b Are there any years listed in 2a for which the foundation is not applying the provisions of section 4942(a)(2) (relating to incorrect valuation of assets) to the year's undistributed income? (If applying section 4942(a)(2) to all years listed, answer 'No' and attach statement - see instructions.)		<input checked="" type="checkbox"/>
c If the provisions of section 4942(a)(2) are being applied to any of the years listed in 2a, list the years here		
<u>20</u> , <u>20</u> , <u>20</u> , <u>20</u>		
3 a Did the foundation hold more than a 2% direct or indirect interest in any business enterprise at any time during the year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
b If 'Yes,' did it have excess business holdings in 2016 as a result of (1) any purchase by the foundation or disqualified persons after May 26, 1969, (2) the lapse of the 5-year period (or longer period approved by the Commissioner under section 4943(c)(7)) to dispose of holdings acquired by gift or bequest, or (3) the lapse of the 10-, 15-, or 20-year first phase holding period? (Use Schedule C, Form 4720, to determine if the foundation had excess business holdings in 2016.)		<input checked="" type="checkbox"/>
4 a Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes?		<input checked="" type="checkbox"/>
b Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2016?		<input checked="" type="checkbox"/>

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**Part VII-B** Statements Regarding Activities for Which Form 4720 May Be Required (continued)

5 a During the year did the foundation pay or incur any amount to:

(1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?

☐ Yes ☒ No

(2) Influence the outcome of any specific public election (see section 4955), or to carry on, directly or indirectly, any voter registration drive?

☐ Yes ☒ No

(3) Provide a grant to an individual for travel, study, or other similar purposes?

☐ Yes ☒ No

(4) Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? (see instructions)

☐ Yes ☒ No

(5) Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals?

☐ Yes ☒ No

b If any answer is 'Yes' to 5a(1)–(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance (see instructions)?

5 b

Organizations relying on a current notice regarding disaster assistance check here

☐

c If the answer is 'Yes' to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant?

☐ Yes ☐ No

If 'Yes,' attach the statement required by Regulations section 53.4945–5(d)

6 a Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?

☐ Yes ☒ No

b Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract?

6 b

X

If 'Yes' to 6b, file Form 8870

7 a At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction?

☐ Yes ☒ No

7 b

b If 'Yes,' did the foundation receive any proceeds or have any net income attributable to the transaction?

**Part VIII** Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors

1 List all officers, directors, trustees, foundation managers and their compensation (see instructions)

(a) Name and address	(b) Title, and average hours per week devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
See schedule 6				

2 Compensation of five highest-paid employees (other than those included on line 1 – see instructions) If none, enter 'NONE'

(a) Name and address of each employee paid more than \$50,000	(b) Title, and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
Ronald G. Page 5555 San Felipe, Suite 1900 Houston TX 77056-2730	Controller 40 00	215,650.	75,107.	2,867.
Carla Atmar 5555 San Felipe, Suite 1900 Houston TX 77056-2730	Grant Program Coordinator 40.00	115,738.	42,611.	640.
Carolyn Kahllich 5555 San Felipe, Suite 1900 Houston TX 77056-2730	Senior Acct. 40.00	115,509.	39,961.	733.
Kathy Kirk 5555 San Felipe, Suite 1900 Houston TX 77056-2730	Adm. Asst. 40.00	106,128.	39,848.	1,890
Reena Cegielski 5555 San Felipe, Suite 1900 Houston TX 77056-2730	Staff Acct 40 00	89,093.	35,264.	130.

Total number of other employees paid over \$50,000

2

**Part VIII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors** (continued)

3 Five highest-paid independent contractors for professional services (see instructions) If none, enter 'NONE'		
(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
Eagle Capital Management LLC 499 Park Avenue New York NY 10022	Investment Manager	524,764.
Silchester International Investors 780 Third Avenue, 42nd Floor New York NY 10017	Investment Manager	502,783.
Iridian Asset Management LLC 276 Post Road West Westport CT 06880	Investment Manager	413,517.
Edgaston Asian Equity Trust 105 Piccadilly London, W1J 7NJ	Investment Manager	257,472
Wellington Trust Company 280 Congress Street Boston MA 02210	Investment Manager	256,832
Total number of others receiving over \$50,000 for professional services		8

**Part IX-A Summary of Direct Charitable Activities**

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.

	Expenses
1 The Robert A. Welch Foundation Award in Chemistry (Schedule 10)	1,128,921.
2 Norman Hackerman Award in Chemical Research (schedule 10)	522,353.
3 The 60th Annual Robert A. Welch Foundation Conference on Chemical Research (approximately 469 attendees)	471,958.
4	

**Part IX-B Summary of Program-Related Investments** (see instructions)

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2	Amount
1	
2	
All other program-related investments See instructions	
3	
Total Add lines 1 through 3	

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**Part X Minimum Investment Return** (All domestic foundations must complete this part. Foreign foundations, see instructions.)

1	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes		
a	Average monthly fair market value of securities	1 a	657,827,667.
b	Average of monthly cash balances	1 b	2,622,146
c	Fair market value of all other assets (see instructions)	1 c	6,078,733
d	Total (add lines 1a, b, and c)	1 d	666,528,546.
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation)	1 e	
2	Acquisition indebtedness applicable to line 1 assets	2	
3	Subtract line 2 from line 1d	3	666,528,546.
4	Cash deemed held for charitable activities. Enter 1-1/2% of line 3 (for greater amount, see instructions)	4	9,997,928
5	Net value of noncharitable-use assets. Subtract line 4 from line 3. Enter here and on Part V, line 4.	5	656,530,618
6	Minimum investment return. Enter 5% of line 5	6	32,826,531

**Part XI Distributable Amount** (see instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations check here ☐ and do not complete this part.)

1	Minimum investment return from Part X, line 6	1	32,826,531.
2 a	Tax on investment income for 2016 from Part VI, line 5	2 a	272,873.
b	Income tax for 2016 (This does not include the tax from Part VI)	2 b	
c	Add lines 2a and 2b	2 c	272,873
3	Distributable amount before adjustments. Subtract line 2c from line 1	3	32,553,658.
4	Recoveries of amounts treated as qualifying distributions	4	624,039.
5	Add lines 3 and 4	5	33,177,697.
6	Deduction from distributable amount (see instructions)	6	
7	Distributable amount as adjusted. Subtract line 6 from line 5. Enter here and on Part XIII, line 1	7	33,177,697

**Part XII Qualifying Distributions** (see instructions)

1	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes		
a	Expenses, contributions, gifts, etc. — total from Part I, column (d), line 26	1 a	31,620,384.
b	Program-related investments — total from Part IX-B.	1 b	
2	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes	2	
3	Amounts set aside for specific charitable projects that satisfy the		
a	Suitability test (prior IRS approval required)	3 a	
b	Cash distribution test (attach the required schedule)	3 b	
4	Qualifying distributions. Add lines 1a through 3b. Enter here and on Part V, line 8, and Part XIII, line 4.	4	31,620,384
5	Foundations that qualify under section 4940(e) for the reduced rate of tax on net investment income. Enter 1% of Part I, line 27b (see instructions)	5	272,873.
6	Adjusted qualifying distributions. Subtract line 5 from line 4.	6	31,347,511

**Note** The amount on line 6 will be used in Part V, column (b), in subsequent years when calculating whether the foundation qualifies for the section 4940(e) reduction of tax in those years.



**Part XIII** Undistributed Income (see instructions)

	(a) Corpus	(b) Years prior to 2015	(c) 2015	(d) 2016
1 Distributable amount for 2016 from Part XI, line 7				33,177,697
2 Undistributed income, if any, as of the end of 2016				
a Enter amount for 2015 only			31,012,978.	
b Total for prior years 20____, 20____, 20____				
3 Excess distributions carryover, if any, to 2016				
a From 2011	0.			
b From 2012	0.			
c From 2013	0.			
d From 2014	0.			
e From 2015	0.			
f Total of lines 3a through e	0.			
4 Qualifying distributions for 2016 from Part XII, line 4 ▶ \$ 31,620,384.				
a Applied to 2015, but not more than line 2a			31,012,978.	
b Applied to undistributed income of prior years (Election required — see instructions)				
c Treated as distributions out of corpus (Election required — see instructions)				
d Applied to 2016 distributable amount				607,406
e Remaining amount distributed out of corpus	0.			
5 Excess distributions carryover applied to 2016 (If an amount appears in column (d), the same amount must be shown in column (a))				
6 Enter the net total of each column as indicated below:				
a Corpus Add lines 3f, 4c, and 4e Subtract line 5	0.			
b Prior years' undistributed income Subtract line 4b from line 2b		0.		
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed				
d Subtract line 6c from line 6b Taxable amount — see instructions		0.		
e Undistributed income for 2015 Subtract line 4a from line 2a Taxable amount — see instructions			0.	
f Undistributed income for 2016 Subtract lines 4d and 5 from line 1 This amount must be distributed in 2017				32,570,291.
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (Election may be required — see instructions)				
8 Excess distributions carryover from 2011 not applied on line 5 or line 7 (see instructions)	0.			
9 Excess distributions carryover to 2017 Subtract lines 7 and 8 from line 6a	0.			
10 Analysis of line 9				
a Excess from 2012	0.			
b Excess from 2013	0.			
c Excess from 2014	0.			
d Excess from 2015	0.			
e Excess from 2016	0.			



**Part XV** Supplementary Information (continued)**3** Grants and Contributions Paid During the Year or Approved for Future Payment

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
<i>a</i> Paid during the year See Schedule 9				29,899,732
<b>Total . . . . .</b>				<b>3 a</b> 29,899,732
<i>b</i> Approved for future payment See schedule 9				14,597,697.
<b>Total</b>				<b>3 b</b> 14,597,697

## Part XVI-A Analysis of Income-Producing Activities

Enter gross amounts unless otherwise indicated

Enter gross amounts unless otherwise indicated		Unrelated business income		Excluded by section 512, 513, or 514		(e) Related or exempt function income (See instructions )
		(a) Business code	(b) Amount	(c) Exclu- sion code	(d) Amount	
1	Program service revenue					
a						
b						
c						
d						
e						
f						
g	Fees and contracts from government agencies					
2	Membership dues and assessments					
3	Interest on savings and temporary cash investments			14	76,481.	
4	Dividends and interest from securities			14	4,485,260.	
5	Net rental income or (loss) from real estate					
a	Debt-financed property . . . . .					
b	Not debt-financed property . . . . .			14	200	
6	Net rental income or (loss) from personal property					
7	Other investment income					
8	Gain or (loss) from sales of assets other than inventory			18	29,526,776.	
9	Net income or (loss) from special events					
10	Gross profit or (loss) from sales of inventory					
11	Other revenue					
a	Royalties			15	1,207,599.	
b	Other Income			1	135,833.	
c						
d						
e						
12	Subtotal. Add columns (b), (d), and (e)				35,432,149.	
13	Total. Add line 12, columns (b), (d), and (e)				35,432,149.	

(See worksheet in line 13 instructions to verify calculations )

## Part XVI-B Relationship of Activities to the Accomplishment of Exempt Purposes

[illegible]



Taxpayer's ID  
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Schedule I

The Robert A. Welch Foundation  
990PF, page 1  
Year Ended August 31, 2017

	Receipts and Expenses Per Book	Net Investment Income	For Exempt Purpose
Line 15 - Pension plans, employee benefits			
Insurance	218,020	120,406	87,027
Payroll Taxes	61,999	35,594	26,032
Contribution to the Defined Contribution Plan	139,990	78,092	61,106
	<u>420,009</u>	<u>234,092</u>	<u>174,165</u>

Taxpayer's I D  
76-0343128

Schedule 1a

The Robert A. Welch Foundation  
990PF, page 1  
Year Ended August 31, 2017

	Receipts and Expenses Per Book	Net Investment Income	For Exempt Purpose
Line 16a - Legal Fees	14,598	8,468	6,129
Line 16b - Accounting Fees	85,525	40,213	42,763
Line 16c - Other Professional Fees			
Investment Advisors	3,328,539	5,866,264	
Auxiliary Board Fees	57,781	30,965	26,816
Custody Management Fee	64,470	64,470	
Investment Consulting	148,552	148,552	
Land and Royalty Consulting	61,800	61,800	
Other Misc Professional Fees	14,418	8,124	6,294
	<u>3,675,560</u>	<u>6,180,175</u>	<u>33,110</u>

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Schedule 2

The Robert A. Welch Foundation  
990PF, page 1  
Year Ended August 31, 2017

	Receipts and Expenses Per Book	Net Investment Income	For Exempt Purpose
Line 18 - Taxes			
Production	99,015	99,015	0
Ad Valorem	23,176	23,176	0
Federal Excise Tax	85,287	0	0
Foreign Taxes Paid	0	384,703	0
	<u>207,478</u>	<u>506,894</u>	<u>0</u>

Line 19 - Depreciation Depletion, and Amortization

Depletion	0	3,555	0
Depreciation (Schedule 11)	<u>3,620</u>	<u>5,855</u>	<u>0</u>
	<u>3,620</u>	<u>9,410</u>	<u>0</u>



Taxpayer's ID  
76-0343128

Schedule 3

The Robert A. Welch Foundation  
990PF, page 1  
Year Ended August 31, 2017

	Receipts and Expenses Per Book	Net Investment Income	For Exempt Purpose
Line 23 - Other Expenses			
Bank Fees	3,836	2,002	1,848
Office Supplies	4,616	2,341	2,276
Dues and Subscriptions	17,398	9,565	7,833
Sundry	12,981	6,381	6,600
Postage	2,000	100	1,900
Insurance	82,135	48,696	33,439
Service Agreement	1,560	791	769
Visitation	1,790	0	1,790
Public Relations	36,750	3,675	33,074
Telephone	12,466	3,117	9,349
Computer Supplies & Maintenance	190,146	62,561	127,585
Advisory Board Fees & Expenses	379,086	0	379,086
Semiannual Meetings	30,985	0	30,985
Portfolio Deductions	0	285,794	0
Equipment Rental, Storage & Other Leases	25,150	12,750	12,401
	<u>800,899</u>	<u>437,773</u>	<u>648,935</u>

Taxpayer's ID  
76-0343128

Schedule 8

The Robert A. Welch Foundation  
990PF, page 1  
Year Ended August 31, 2017

	Receipts and Expenses Per Book	Net Investment Income	For Exempt Purpose
Line 11			
Other Income			
Royalties	1,207,599	1,323,080	0
Other Income	135,833	2,444,467	0
	<u>1,343,432</u>	<u>3,767,547</u>	<u>0</u>

Taxpayer's I D  
76-0343128

Schedule 4

The Robert A. Welch Foundation  
990PF, page 2  
Year Ended August 31, 2017

Part II, Line 14, Column (b)	Basis	Accumulated Depreciation	Net
Land, Buildings, and Equipment			
Leasehold Improvements	451,133	451,133	0
Furniture and Fixtures	391,370	342,348	49,022
Hardware	99,755	88,877	10,878
Software	125,848	125,848	0
	<u>1,068,106</u>	<u>1,008,206</u>	<u>59,900</u>

Part II, Line 15, Column (b)	
Other Assets	
Custody Receivable	477,157
Other Receivables	5,073
Oil and Gas Royalties Receivable	89,299
Dividend Receivable	154,707
Interest Receivable	165,475
Prepaid FET	395,401
Section 10	501,900
Other Assets	44,449
	<u>1,833,461</u>

Part II, Line 22, Column (b)	
Other Liabilities	
Deferred Federal Tax Payable	2,196,044
	<u>2,196,044</u>

Amounts are reported at cost

The Robert A. Welch Foundation  
Investments-US Government Obligations  
Year Ended August 31, 2017  
Form 990PF, page 2

Taxpayer's ID 76-0343128  
Schedule 4a

Quantity	Security	Cost
685,000.00	UST NTS 1.000% Due 09-15-17	684,200
550,000.00	UST NTS 2.250% Due 02-15-27	539,688
850,000.00	UST NTS 1.750% Due 05-15-22	856,917
1,000,000.00	UST NTS 2.125% Due 06-30-22	1,003,676
1,000,000.00	UST NTS 2.250% Due 11-15-25	995,234
1,200,000.00	UST NTS 1.625% Due 11-15-22	1,199,489
1,250,000.00	UST NTS 2.375% Due 12-31-20	1,257,622
1,500,000.00	UST NTS 2.625% Due 04-30-18	1,503,053
1,500,000.00	UST NTS 1.250% Due 04-30-19	1,499,121
1,500,000.00	UST NTS 1.250% Due 10-31-19	1,521,158
2,000,000.00	UST NTS 1.875% Due 10-31-17	1,929,539
2,000,000.00	UST NTS 2.875% Due 03-31-18	2,038,758
2,000,000.00	UST NTS 1.250% Due 05-31-19	1,998,359
2,450,000.00	UST NTS 1.625% Due 07-31-19	2,434,313
2,450,000.00	UST NTS 1.750% Due 01-31-23	2,486,463
2,500,000.00	UST NTS 0.750% Due 02-15-19	2,488,672
2,500,000.00	UST NTS 2.125% Due 08-15-21	2,542,744
2,500,000.00	UST NTS 1.625% Due 04-30-23	2,499,316
2,500,000.00	UST NTS 2.000% Due 08-15-25	2,493,457
3,000,000.00	UST NTS 3.625% Due 08-15-19	3,091,939
3,000,000.00	UST NTS 2.625% Due 11-15-20	2,833,723
3,000,000.00	UST NTS 1.625% Due 08-15-22	2,981,262
3,500,000.00	UST NTS 2.625% Due 08-15-20	3,473,901
1,182,232.00	VANGUARD FIXED INCOME INF	12,848,083
		<u>57,200,687</u>
Less Accumulated Amortization		<u>56.245</u>
Total Bond Cost		<u><u>57,256,932</u></u>

Amounts are reported at cost

The Robert A. Welch Foundation  
Investments-Corporate Stocks  
Year Ended August 31, 2017  
Form 990PF, page 2

Taxpayer's ID 76-0343128  
Schedule 4b

Shares	Security	Cost
1,190.00	ALPHABET INC CAP STK CL A	327,026
4,176.00	ALPHABET INC CAP STK CL C	2,250,329
3,484.00	AMAZON COM INC COM	1,035,569
10,800.00	ANADARKO PETRO	703,141
27,500.00	AON PLC SHS CL A	1,373,570
91,500.00	BANK OF AMERICA	1,468,573
15,900.00	BERKLEY W R CORP COM	437,077
35,125.00	BERKSHIRE HATHAWAY INC CL B	4,090,606
71,800.00	CITIGROUP INC COM	3,310,727
39,600.00	DISH NETWORK CORP CL A	2,113,302
25,300.00	ECOLAB	1,783,570
8,100.00	FIDELITY NATL INFO SVC COM	481,343
4,200.00	GENERAL DYNAMICS	603,345
63,700.00	GENERAL MTRS CO COM	2,196,128
8,067.00	GOLDMAN SACHS	1,119,907
6,399.00	ILG INC COM	76,319
26,017.00	JP MORGAN CHASE & CO	1,492,497
10,321.00	LIBERTY GLOBAL PLC LILAC SHS CL C	57,815
126,060.00	LIBERTY GLOBAL PLC SHS CL C	3,113,411
27,930.00	MARRIOTT INTL INC NEW CL A	2,046,524
69,200.00	MICROSOFT	3,395,045
39,200.00	MONDELEZ INTL INC CL A	956,144
16,650.00	MORGAN STANLEY COM	277,120
32,500.00	NOBLE ENRGY INC COM	1,506,656
103,200.00	ORACLE	3,441,782
16,700.00	PEPSICO	1,125,989
8,800.00	THERMO ELECTRON	296,961
79,900.00	TWENTY FIRST CTY FOX CL B	2,587,008
15,025.00	UNITEDHEALTH GROUP	885,338
39,100.00	WELLS FARGO	2,145,127
1,424,055.40	BLACKROCK RUSSELL3000INDEX FUND B	34,990,045
17,431.02	DODDINGTON EMF, LLC	17,431,019
810,479.17	EDGBASTON ASIAN EQUITY TRUST	19,106,224
1,220,474.20	IRIDIAN PBV EQUITY FUND, LP	51,139,497
117,670.00	ISHARES MSCI EAFE ETF	7,827,911
1,560,196.73	JO HAMBRO CAPITAL MGMT LTD	33,500,000
20,000.00	KABOUTER INT'L OPPORTUNITIES FUND II	20,000,000
13,500.00	LL MORTGAGE FUND, LP	13,309,185
532,511.93	SII INT'L VALUE EQUITY	29,605,818
1,575,937.83	WELLINGTON CTF DIH	25,512,208
		<u>299,119,856</u>

Amounts are reported at cost

The Robert A. Welch Foundation  
Investments-Other  
Year Ended August 31, 2017  
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Taxpayer's ID 76-0343128  
Schedule 4c

Part II, Line 10c, Column (b)

Corporate bonds

Brandywine Global Investment Management Trust	10,388,145
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Part II, Line 13, Column (b)

Other Investments

Ashbel Smith Management Company Preferred	156,667
Ashbel Smith Management Company Common	20,000
Mineral and Fee Properties	3,111,782
RWF Fund, L.P.	172,928,471
	<u>176,216,920</u>

Amounts are reported at cost

Taxpayer's I D  
76-0343128

Schedule 5

The Robert A Welch Foundation  
990PF, page 2  
Year Ended August 31, 2017

Part III, Line 3 - Other increases not included in line 2

Decrease in Pension Liability	20,434
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Part III, Line 5 - Decreases not included in line 2

Federal Excise Tax Provision on Capital Gains	(1,305,407)
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The Robert A. Welch Foundation  
990PF, page 6  
Year Ended August 31, 2017

Taxpayer's ID  
76-0343128

Schedule 6

Part VIII, Line 1

Name/ Address	Title	Time Devoted	Compensation	Benefit Plans	Expense Account and Allowance
Charles W. Tate 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730	Chair & Director	6 hours	50,000	0	0
Carin M. Barth 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730	Vice Chair & Director	4 hours	35,000	0	0
Ernest H. Cockrell 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730	Secretary & Director	4 hours	35,000	0	0
Robert C. Robbins, M.D. 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730 (9/01/16 through 06/01/17)	Treasurer & Director	4 hours	26,250	0	0
Wilhelmina E. Robertson 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730	Director	4 hours	35,000	0	0
Douglas L. Foshee 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730 (Appointed 6/13/17)	Director	4 hours	7,583	0	0
Norbert Dittich 5555 San Felipe, Suite 1900 Houston, Texas 77056-2730	President	40 hours	599,530 (1)	81,347	3,564
			<u>788,363</u>		
Applied to Direct Charitable Activities			<u>(142,133)</u>		
Page 1, Part I, Line 13(a)			<u>646,230</u>		

(1) Salary	520,457
Benefit restoration payment made due to the compensation limit imposed on retirement plans	<u>79,073</u>
	<u>599,530</u>



Taxpayer's ID  
76-0343128

Schedule 11

The Robert A. Welch Foundation  
990PF  
Year Ended August 31, 2017  
Schedule of Depreciable Property

Description	<u>Date Acquired</u>	<u>Cost</u>	<u>Accumulated Depreciation</u>	<u>Method/ Life</u>	<u>Depreciation Expense</u>
Leasehold Improvements	1-15-96	214,954	111,754	S/L 39	5,512
Furniture and Equipment	3-31-10	90	84	S/L 7	6
Furniture and Equipment	5-30-14	<u>2,363</u>	<u>845</u>	S/L 7	<u>338</u>
		226,920	122,196		5,855
Total Depreciation					5,855

See Schedule 2 for Depreciation and Depletion totals

Taxpayer's ID  
76-0343128

Schedule 12

The Robert A. Welch Foundation  
990PF  
Year Ended August 31, 2017



Part VII-A  
Question 11  
Statement Regarding Activities  
Controlled Entity

RWF Fund, L.P.  
125 High Street  
Boston, MA 02110  
Tax ID \*\*-\*9382

This entity meets the Investment Partnership exception

The Robert A Welch Foundation

Taxpayer's ID 76-0343128  
Schedule 9

#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
A 396	GOV	Texas A&M University College Station, TX	Molecular Structures and Vibrational Potential Energy Surfaces in Ground and Excited Electronic States	60,000	0	60,000		0
A 514	GOV	Texas A&M University College Station, TX	The Influence of Reduced Dimensionality Disorder and Interfaces on the Properties of Solids	48,750	0	48,750		0
A 639	GOV	Texas A&M University College Station, TX	Multiphase Multicomponent Systems for Synthesis and Catalysis	60,000	0	60,000		0
A 618	GOV	Texas A&M University College Station, TX	Computational Chemistry on Transition Metal Systems	60,000	0	60,000		0
A 673	GOV	Texas A&M University College Station, TX	Surface Functionalization of Zirconium Phosphate and Phosphonate for Drug Delivery, Lubrication, and Catalysis	140,000	0	100,000		40,000
A 770	GOV	Texas A&M University College Station, TX	Some Accurate New Complex Scaled Multiconfigurational Methods for Electron- Atom/Molecule Scattering Resonances	48,750	0	48,750		0
A 840	GOV	Texas A&M University College Station, TX	Fluctuation of Enzyme Reaction Mechanisms	0	240,000	120,000		120,000
A 923	GOV	Texas A&M University College Station, TX	Design and Reactivity Studies of Metal Catalysts for the Production of Polycarbonates from Novel Oxiranes and Carbon Dioxide	60,000	0	60,000		0
A 924	GOV	Texas A&M University College Station, TX	Fundamental Chemistry that Controls Nitric Oxide Release: Capture or Retention in the Dinitrosyl Iron Unit	60,000	0	60,000		0
A 1020	GOV	Texas A&M University College Station, TX	Nuclear Motion Probed by Molecular-Fractal Photoionization	60,000	0	60,000		0
A 1121	GOV	Texas A&M University College Station, TX	Ladder-Rung Mimics for Perturbing Protein-Protein Interactions	60,000	0	60,000		0
A 1170	GOV	Texas A&M University College Station, TX	Characterization of Low-Molecular-Mass Metal Complexes in Mitochondria and Blood	140,000	0	100,000		40,000
A 1261	GOV	Texas A&M University College Station, TX	Experimental and Theoretical Research into Quantum Chemistry and Quantum Optics	0	330,000	165,000		165,000
A 1266	GOV	Texas A&M University College Station, TX	Investigating the equation-of-state for a two-component nuclear system	0	240,000	120,000		120,000
A 1358	GOV	Texas A&M University College Station, TX	Theoretical Studies of Heavy Ion Collisions	60,000	0	60,000		0
A 1397	GOV	Texas A&M University College Station, TX	Nuclear Decay Studies	140,000	0	100,000		40,000
A 1405	GOV	Texas A&M University College Station, TX	Fundamental Imaging Studies of Chemical Reactivity	113,750	0	81,250		32,500
A 1417	GOV	Texas A&M University College Station, TX	Chemical Kinetics and Mechanism of Hydrocarbon Oxidation Reactions	140,000	0	100,000		40,000
A 1423	GOV	Texas A&M University College Station, TX	Tuning the electrophilic properties of group 10 metal complexes using non-innocent antimony Zr-ligands	0	330,000	165,000		165,000
A 1449	GOV	Texas A&M University College Station, TX	Magnetic and Electronic Properties of Molecular Materials	82,500	0	82,500		0
A 1526	GOV	Texas A&M University College Station, TX	Magnetic, Electronic, and Dynamical Behavior of New Semiconducting Materials	113,750	0	81,250		32,500
A 1546	GOV	Texas A&M University College Station, TX	Optical studies of atomic and molecular systems with femtosecond XUV and IR laser radiation	0	240,000	120,000		120,000
A 1547	GOV	Texas A&M University College Station, TX	Ultrafast Coherent Molecular Spectroscopy with Spatially and Temporally Shaped Electromagnetic Fields	0	240,000	120,000		120,000
A 1639	GOV	Texas A&M University College Station, TX	Hot Electrons Generated from Upconversion in Doped Quantum Dots	48,750	0	48,750		0

The Robert A Welch Foundation

Taxpayer's ID 76-0343128  
Schedule 9

#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
A 1647	GOV	Texas A&M University College Station, TX	Involving Metallofactor Chemistry Through Second Shell Interactions	113,750	0	81,250		32,500
A 1656	GOV	Texas A&M University College Station, TX	Werner Complexes as "Organocatalysts"	140,000	0	100,000		40,000
A 1658	GOV	Texas A&M University College Station, TX	Characterization of Olefin Metathesis Using Dissolution Dynamic Nuclear Polarization	113,750	0	81,250		32,500
A 1715	GOV	Texas A&M University College Station, TX	Novel Chemical Biology Tools for Investigating the Protein Ubiquitination System	60,000	0	60,000		0
A 1717	GOV	Texas A&M University College Station, TX	Ligand Design Approaches to Coupling Catalysis with Group 9 Metal Complexes	82,500	0	52,500		0
A 1742	GOV	Texas A&M University College Station, TX	Membrane Protein Regulation Through the Lipid Bilayer	113,750	0	81,250		32,500
A 1763	GOV	Texas A&M University College Station, TX	Fundamental mechanisms of RNA polymerase II transcription	0	240,000	120,000		120,000
A 1783	GOV	Texas A&M University College Station, TX	Pml "hires" the Earl: Regulatory Role of the C-Terminal Domain of Protein Kinase C	48,750	0	48,750		0
A 1795	GOV	Texas A&M University College Station, TX	Biochemical and Regulatory Constraints of Immune Sensors	60,000	0	60,000		0
A 1801	GOV	Texas A&M University College Station, TX	Optical Detection and Control of Ultrafast Electron Dynamics and Small-Scale Temperature Variations in Chemical Systems	82,500	0	82,500		0
A 1810	GOV	Texas A&M University College Station, TX	Phospholipid Requirements for Mitochondrial Structure and Function	113,750	0	81,250		32,500
A 1828	GOV	Texas A&M University College Station, TX	Streptomyces salachurum: A Rich Treasure Trove of Unique Biosynthetic Reactions	113,750	0	81,250		32,500
A 1863	GOV	Texas A&M University College Station, TX	Functions of Unique Structures in Mycobacterium tuberculosis Translation	0	240,000	120,000		120,000
A 1880	GOV	Texas A&M University College Station, TX	Synthetic Strategies for the Preparation of Supramolecular and Covalent Cage Structures Containing Carbonate Moieties	48,750	0	48,750		0
A 1884	GOV	Texas A&M University College Station, TX	Time and Space Resolved Chemical and Biological Reaction Intermediates	48,750	0	48,750		0
A 1886	GOV	Texas A&M University College Station, TX	Hot Carrier Up-Conversion Luminescence in Nanocrystal Heterostructures	48,750	0	48,750		0
A 1890	GOV	Texas A&M University College Station, TX	Accelerating the Search for New Topological Materials Using in-situ X-ray Diffraction Measurements and Electronic Structure Calculations	113,750	0	81,250		32,500
A 1898	GOV	Texas A&M University College Station, TX	-Conjugated Macrocyclic Molecular Belts	113,750	0	81,250		32,500
A 1907	GOV	Texas A&M University College Station, TX	PdCl <sub>2</sub> -Triggered Metal-Ligand Cooperation for Aerobic Oxidation Catalysis	113,750	0	81,250		32,500
A 1909	GOV	Texas A&M University College Station, TX	Development of Cross-Chiral Nuclear Acid Biosensors for Detection of RNA Structure	113,750	0	81,250		32,500
A 1931	GOV	Texas A&M University College Station, TX	The Structural Basis of RNA Synthesis by Zika Virus	0	195,000	97,500		97,500
AA 1280	PC	Baylor University Houston, TX	Novel Strategies for B-Lactone Synthesis and Annulation to Impact Basic Cell Biology	82,500	0	82,500		0
AA 1846	PC	Baylor University Houston, TX	Heavy Element-Boron Systems: From Unusual Bonding to New Synthetic Tools	0	240,000	160,000		80,000
AA 1854	PC	Baylor University Houston, TX	The dark side of "wild type" Cu <sup>2+</sup> /Zn <sup>2+</sup> in motor neuron disease: novel strategies for protein template	0	195,000	130,000		65,000

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#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Cancel	Balance 8.31.2017
AA 1899	PC	Baylor University Houston, TX	Can We Apply Hydrogen/Deuterium Exchange -- Mass Spectrometry to Elucidate Glycan Binding Interactions?	113,750	0	113,750		0
AI 546	GOV	UT at El Paso El Paso, TX	SILOXANIL-THYLAMINIF-5 Masked Amination Reagents for New Metal-Ligands	0	0	0		0
AI 1649	GOV	UT at El Paso El Paso, TX	Deciphering the Structural and Functional Basis for Ring Separation in Chaperonins	65,000	0	0		65,000
AI 1922	GOV	UT at El Paso El Paso, TX	New Views in Early Actinide Chemistry	0	195,000	65,000		130,000
AQ 1245	GOV	UT HSC at San Antonio San Antonio, TX	Mechanisms of Enzymes	0	195,000	130,000		65,000
AQ 1399	GOV	UT HSC at San Antonio San Antonio, TX	In silico Screening for Inhibitors of CARD8 Toxin from Mycoplasma	192,500	0	192,500		0
AQ 1507	GOV	UT HSC at San Antonio San Antonio, TX	Modulating Hemichannel Activities Using Targeting Antibodies	140,000	0	140,000		0
AI 584	GOV	UT at Dallas Richardson, TX	Shift reagents for MRI detection of specific metabolites	0	240,000	80,000		160,000
AI 1153	GOV	UT at Dallas Richardson, TX	Zebrafish Encapsulated Metal Complexes	80,000	0	0		80,000
AI 1505	GOV	UT at Dallas Richardson, TX	Tailoring Small Molecules to Mimic Protein Helical Surfaces	0	195,000	65,000		130,000
AI 1617	GOV	UT at Dallas Richardson, TX	Photochemistry of Nanoprinted Hybrid Peroxyskates for Photovoltaics	0	240,000	80,000		160,000
AI 1740	GOV	UT at Dallas Richardson, TX	Semiconducting Block Copolymers Capable of Actuated Changes of Opto-Electronic Properties	80,000	0	0		80,000
AI 1877	GOV	UT at Dallas Richardson, TX	Tracking Amino Acid Metabolism in Cancer in Real-Time Using Hyperpolarized 13C Magnetic Resonance	0	0	0		0
AI 1918	GOV	UT at Dallas Richardson, TX	Exploring the Negative (X-) Side of Biology: Molecular and Protein-Based Technologies for Imaging Cellular Chloride	0	195,000	65,000		130,000
AI 1935	GOV	UT at Dallas Richardson, TX	Transition metal selectivity and translocation in transmembrane ion pumps	0	195,000	65,000		130,000
AI 1714	GOV	UT HSC at Houston Houston, TX	High-Resolution Structure Determination of Molecular Machines in Spin by Cryo- Electron Tomography	82,500	0	82,500		0
AI 1751	GOV	UT HSC at Houston Houston, TX	Molecular Mechanisms of a Clock-Enhancing Natural Product	113,750	0	113,750		0
AI 1875	GOV	UT HSC at Houston Houston, TX	Locus-Specific Quantitation of Uracil Associated with Unscheduled DNA Synthesis	48,750	0	48,750		0
AI 1593	GOV	UT at San Antonio San Antonio, TX	Expeditious Modification of Organocatalyst Structures for Improved Stereoselectivities	110,000	0	0		110,000
AI 1615	GOV	UT at San Antonio San Antonio, TX	Designing highly active noble metal catalysts using Ni, Co and Cu a new generation of catalyst	0	240,000	80,000		160,000
AI 1730	GOV	UT at San Antonio San Antonio, TX	Functional Porous Metal-Organic Frameworks for Recognition of Small Molecules	110,000	0	0		110,000
AI 1772	GOV	UT at San Antonio San Antonio, TX	Earth-Abundant Transition Metal Catalysts Supported by Pincer Ligands	0	240,000	80,000		160,000
AI 1788	GOV	UT at San Antonio San Antonio, TX	New Catalytic Strategies for the Synthesis of Complex Heterocycles	0	0	0		0
AI 1857	GOV	UT at San Antonio San Antonio, TX	Fundamental Chemical Research on Larger Molecular Noble-Metal Clusters	0	240,000	80,000		160,000

#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Cancel	Balance 8.31.2017
AA 1871	GOV	UT at San Antonio San Antonio, TX	Selective Chemical Oxidations	0	0	0		0
B 1193	GOV	University of North Texas Denton, TX	Synthesis and Reactivity Studies of Polymolecular Clusters	0	240,000	160,000		80,000
B 1542	GOV	University of North Texas Denton, TX	Dawn Rise upon New Chemical Bonds amidst Ground- and Excited-State Bonding Assessments in Luminescent Molecules/Lactams/Polymers	0	240,000	160,000		80,000
B 1577	GOV	University of North Texas Denton, TX	Emergence of Biological Complexity	65,000	0	65,000		0
BI 1913	GOV	Texas A&M University System HSC College Station, TX	Optical Rewiring of Epigenetic Landscapes to Reprogram Cell Fate	113,750	0	113,750		0
BX 1921	GOV	University of Texas Rio Grande Valley	Stochastic Methods for Highly Accurate Quantum Chemistry Extended to Nonadiabatic Molecular Dynamics	0	195,000	130,000		65,000
C 586	PC	Rice University Houston, TX	Application of Mid-Infrared Quantum and Interband Cascade Lasers to High Precision Trace Gas Monitoring	60,000	0	60,000		0
C 627	PC	Rice University Houston, TX	Carbon Nanotube Capsules for Advanced Therapeutic Applications	0	240,000	120,000		120,000
C 734	PC	Rice University Houston, TX	Studies Involving Molecules in High Rydberg States	0	240,000	120,000		120,000
C 807	PC	Rice University Houston, TX	Optical Studies of Nanocarbons	60,000	0	60,000		0
C 1133	PC	Rice University Houston, TX	Universal Triatomic Molecules by Association of Ultracold Atoms	82,500	0	82,500		0
C 1220	PC	Rice University Houston, TX	Chemical and Photophysical Properties of Electron-Defocalized Nanoparticles	192,500	0	137,500		55,000
C 1222	PC	Rice University Houston, TX	Theoretical Investigations of Chemical Properties of Nanosystems	192,500	0	137,500		55,000
C 1241	PC	Rice University Houston, TX	Structure and Properties of Complex Fluids in the Bulk and Interfacial Regions	0	240,000	120,000		120,000
C 1309	PC	Rice University Houston, TX	Novel photosynthetic processes in plants	0	240,000	120,000		120,000
C 1411	PC	Rice University Houston, TX	Theoretical Studies of Electronic Dynamics and Correlations in Carbon-Based and Related Low-Dimensional Structures	192,500	0	137,500		55,000
C 1509	PC	Rice University Houston, TX	Optical, Infrared, and Terahertz Spectroscopy of Low-Dimensional Materials	140,000	0	100,000		40,000
C 1557	PC	Rice University Houston, TX	Synthesis of Nanostructured Organic Materials via Self-Assembly	60,000	0	60,000		0
C 1559	PC	Rice University Houston, TX	Unraveling the Chemical Mechanisms of Selectivity in Channel-Facilitated Molecular Transport	82,500	0	82,500		0
C 1565	PC	Rice University Houston, TX	Structural and Functional Studies of Viral Polymerases	60,000	0	60,000		0
C 1570	PC	Rice University Houston, TX	Mapping the Free Energy Landscape of Proteins by Combining Theory and Experiment	192,500	0	137,500		55,000
C 1590	PC	Rice University Houston, TX	Science of Nearly-1D Materials: From Nanotubes to Nanowires and Graph Boundaries	140,000	0	100,000		40,000
C 1632	PC	Rice University Houston, TX	Single Molecule and Single Cell Studies of Biological Systems	48,750	0	48,750		0
C 1636	PC	Rice University Houston, TX	Novel Single- and Few-Molecule Vibrational Spectroscopies	48,750	0	48,750		0

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#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Cancel	Balance 8.31.2017
C 1664	PC	Rice University Houston, TX	Observing Chemistry via Surface Plasmons	192,500	0	137,500		55,000
C 1668	PC	Rice University Houston, TX	Physical Chemistry of Nanorods and Nanoplates	192,500	0	137,500		55,000
C 1669	PC	Rice University Houston, TX	Synthetic P-Wave Interaction in Ultracold Atoms	192,500	0	137,500		55,000
C 1680	PC	Rice University Houston, TX	New Strategies for Catalytic Bond Formations	0	240,000	120,000		120,000
C 1682	PC	Rice University Houston, TX	Infrared and Microwave Spectroscopy of Atomically Layered Materials	0	240,000	120,000		120,000
C 1716	PC	Rice University Houston, TX	Developing Atomic Layer Enabled Tunable and Flexible Photodevices	60,000	0	60,000		0
C 1729	PC	Rice University Houston, TX	The Role of Protein/DNA Interactions in the Kinetics of Biochemical Networks	140,000	0	100,000		40,000
C 1761	PC	Rice University Houston, TX	Surface Enhanced Spectroscopy for Biomembrane Structure	0	240,000	120,000		120,000
C 1764	PC	Rice University Houston, TX	New Paradigms in Heterocyclic Chemistry	0	240,000	120,000		120,000
C 1787	PC	Rice University Houston, TX	Identifying Hidden Conformations in Multi-State Bio-Molecules	48,750	0	48,750		0
C 1792	PC	Rice University Houston, TX	Integrating Structural and Co-Evolutionary Genomic Data to Determine the Energy Landscape of Biomolecular Complexes	82,500	0	82,500		0
C 1809	PC	Rice University Houston, TX	Quantum Coherence in Driven Disordered and Topological Many-Body Systems	113,750	0	81,250		32,500
C 1818	PC	Rice University Houston, TX	Multipolar Spin Orders in Correlated Electron Materials	140,000	0	100,000		40,000
C 1819	PC	Rice University Houston, TX	Total Synthesis of Bioactive Natural and Designed Molecules	192,500	0	137,500		55,000
C 1824	PC	Rice University Houston, TX	Synthesis and Characterization of Bio-Inspired Nanoparticles with Autophagy-Modulating Properties	140,000	0	100,000		40,000
C 1825	PC	Rice University Houston, TX	Managing Photons and Charge Carriers for Photocatalysis	113,750	0	81,250		32,500
C 1839	PC	Rice University Houston, TX	TRANSPORT, MAGNETIC, AND NEUTRON SCATTERING STUDIES OF QUANTUM MATERIALS	0	330,000	165,000		165,000
C 1844	PC	Rice University Houston, TX	Pump-Probe Spectroscopy of Rydberg-Macromolecular Decay Pathways	0	240,000	120,000		120,000
C 1845	PC	Rice University Houston, TX	Exotic Collective Phenomena in Nuclear Chemistry at A Trillion Degrees	0	240,000	120,000		120,000
C 1856	PC	Rice University Houston, TX	Next-generation antibiotics: high throughput discovery of inhibitors of pathogenic bacterial two-component systems	0	195,000	97,500		97,500
C 1872	PC	Rice University Houston, TX	Ultracold Nonreactive Molecules: From Collision Complexes to Complex Materials	48,750	0	48,750		0
C 1888	PC	Rice University Houston, TX	Charge Separation in Well-Defined Donor-Acceptor Block Copolymer Interfaces	48,750	0	48,750		0
C 1917	PC	Rice University Houston, TX	Design of Novel Organic Structure Directing Agents for Zeolites	0	195,000	97,500		97,500
C 1930	PC	Rice University Houston, TX	Structural Determinants of Pyoverdine Chemical Function	0	195,000	97,500		97,500

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C	1937	PC	Rice University Houston, TX	0	195,000	97,500		97,500
D	1761	GOV	Texas Tech University Lubbock, TX	0	0	0		0
D	1523	GOV	Texas Tech University Lubbock, TX	80,000	0	0		80,000
D	1807	GOV	Texas Tech University Lubbock, TX	65,000	0	0		65,000
D	1876	GOV	Texas Tech University Lubbock, TX	0	0	0		0
E	621	GOV	University of Houston Houston, TX	0	240,000	80,000		160,000
E	680	GOV	University of Houston Houston, TX	110,000	0	0		110,000
E	1070	GOV	University of Houston Houston, TX	0	195,000	65,000		130,000
E	1146	GOV	University of Houston Houston, TX	0	0	0		0
E	1206	GOV	University of Houston Houston, TX	0	0	0		0
E	1297	GOV	University of Houston Houston, TX	80,000	0	0		80,000
F	1320	GOV	University of Houston Houston, TX	0	240,000	80,000		160,000
F	1337	GOV	University of Houston Houston, TX	0	0	0		0
F	1457	GOV	University of Houston Houston, TX	0	0	0		0
F	1721	GOV	University of Houston Houston, TX	0	0	0		0
F	1728	GOV	University of Houston Houston, TX	80,000	0	0		80,000
F	1714	GOV	University of Houston Houston, TX	65,000	0	0		65,000
F	1765	GOV	University of Houston Houston, TX	0	195,000	65,000		130,000
F	1768	GOV	University of Houston Houston, TX	0	240,000	80,000		160,000
F	1791	GOV	University of Houston Houston, TX	0	0	0		0
F	1806	GOV	University of Houston Houston, TX	65,000	0	0		65,000
F	1860	GOV	University of Houston Houston, TX	0	195,000	65,000		130,000
F	1869	GOV	University of Houston Houston, TX	0	0	0		0



#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
L 1882	GOV	University of Houston Houston, TX	Metastable Liquid-Liquid Phase Transitions in Molecular Models of Tetrahedral Fluids	0	0	0	0	0
L 1887	GOV	University of Houston Houston, TX	Fine Tuning of Molecular Catalysts and Photosensitizers via Synthetic Alloying	0	0	0	0	0
L 1893	GOV	University of Houston Houston, TX	New Pd(II) and Ni(II) Catalysts for Olefin Polymerizations and Copolymerizations	65,000	0	0	0	65,000
L 1894	GOV	University of Houston Houston, TX	Site-Differentiated Platforms for Olefin Polymerization Catalysis	65,000	0	0	0	65,000
L 1916	GOV	University of Houston Houston, TX	Synthesis of Conformational Restricted Natural Products	0	195,000	65,000	0	130,000
L 652	GOV	UT at Austin Austin, TX	Synthesis of Biologically Relevant Molecules	55,000	0	55,000	0	0
L 816	GOV	UT at Austin Austin, TX	Molecular Precursors for New Functional Materials	40,000	0	40,000	0	0
L 1038	GOV	UT at Austin Austin, TX	Femtosecond Optical Probes of Nano-Interface Chemistry	165,000	0	110,000	0	55,000
L 1051	GOV	UT at Austin Austin, TX	Relaxation Processes in Ultracold Atomic Mixtures and Dissociated Molecules	165,000	0	110,000	0	55,000
L 1066	GOV	UT at Austin Austin, TX	Influence of Counter Cation on Mixed-Metal Oxides	165,000	0	110,000	0	55,000
L 1131	GOV	UT at Austin Austin, TX	Electrochemical and Bioelectrochemical Applications of Metal Oxide Templated Carbon Electrodes	55,000	0	55,000	0	0
L 1155	GOV	UT at Austin Austin, TX	Impact of Changes on Protein Fragmentation	165,000	0	110,000	0	55,000
L 1188	GOV	UT at Austin Austin, TX	A New Family of Reporting Molecules	0	195,000	97,500	0	97,500
L 1251	GOV	UT at Austin Austin, TX	Synthesis and Properties of Transition Metal Oxides with Unusual Valence States	0	330,000	165,000	0	165,000
L 1255	GOV	UT at Austin Austin, TX	Properties and their inter-couplings in 2D materials	0	330,000	165,000	0	165,000
L 1258	GOV	UT at Austin Austin, TX	Imaging of Surface Chemistry with Neutral Atoms	0	195,000	97,500	0	97,500
L 1274	GOV	UT at Austin Austin, TX	Mechanistic Characterization and Functional Manipulation of Active Sites that Catalyze Nucleoside Transfer Reactions	40,000	0	40,000	0	0
L 1319	GOV	UT at Austin Austin, TX	Controlled Assembly of Inorganic and Organic Nanoparticle Clusters	0	330,000	165,000	0	165,000
L 1331	GOV	UT at Austin Austin, TX	Development of micro-3D-printed optical fiber probes for remote characterization of complex bio-environments	0	195,000	97,500	0	97,500
L 1334	GOV	UT at Austin Austin, TX	Structure Function Relationships in Enzymes	0	240,000	120,000	0	120,000
L 1390	GOV	UT at Austin Austin, TX	Targeting Molecules for Cancer Therapy	120,000	0	80,000	0	40,000
L 1436	GOV	UT at Austin Austin, TX	Nano-Structured Materials for Chemistry	0	240,000	120,000	0	120,000
L 1464	GOV	UT at Austin Austin, TX	Nanocrystal Assemblies	55,000	0	55,000	0	0
L 1473	GOV	UT at Austin Austin, TX	Syntheses in Two-Dimensional Materials	55,000	0	55,000	0	0

#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
F 1511	GOV	UT at Austin Austin, TX	Mechanistic Studies of Novel Enzymes	165,000	0	110,000		55,000
F 1514	GOV	UT at Austin Austin, TX	Theory and Simulations of Single-Molecule Dynamics	165,000	0	110,000		55,000
F 1515	GOV	UT at Austin Austin, TX	A Mass Spectrometry-Based Reference Map of Core Eukaryotic Protein Complexes	165,000	0	110,000		55,000
F 1535	GOV	UT at Austin Austin, TX	First Principles Investigation of the Structure, Chemistry and Function of Carbon-based Nanomaterials	0	240,000	120,000		120,000
F 1563	GOV	UT at Austin Austin, TX	Investigation of RNA Misfolding Altered Topology	32,500	0	32,500		0
F 1572	GOV	UT at Austin Austin, TX	Chemical Probes of Biological Catalysts	120,000	0	80,000		40,000
F 1599	GOV	UT at Austin Austin, TX	Fundamental Studies of Self-Assembly in Mixtures of Organic and Inorganic Molecules	0	330,000	165,000		165,000
F 1604	GOV	UT at Austin Austin, TX	Dynamics of Structural Changes Governing DNA and RNA Replication	0	240,000	120,000		120,000
F 1607	GOV	UT at Austin Austin, TX	Bacterial Reverse Transcriptases: Characterization and Biotechnological Applications	0	195,000	97,500		97,500
F 1654	GOV	UT at Austin Austin, TX	Kinetic and Structural Characterization of the First Eukaryotic Reverse Transcriptase	120,000	0	80,000		40,000
F 1662	GOV	UT at Austin Austin, TX	Bio-Compatible Quantum Sensors	120,000	0	80,000		40,000
F 1672	GOV	UT at Austin Austin, TX	Tailoring Electronic and Excitonic Structures of 2D Materials	120,000	0	80,000		40,000
F 1691	GOV	UT at Austin Austin, TX	Multiscale Modeling of RNA 3D Structure and Folding	0	240,000	120,000		120,000
F 1696	GOV	UT at Austin Austin, TX	Liquids Near Interfaces: Single-Molecule and Collective Dynamics	0	330,000	165,000		165,000
F 1705	GOV	UT at Austin Austin, TX	Mid-Infrared Vibrational Nanospectroscopy in Liquid Environment	40,000	0	10,000		0
F 1712	GOV	UT at Austin Austin, TX	Preparative Biocatalytic Synthesis of Complex Polypeptides	40,000	0	40,000		0
F 1722	GOV	UT at Austin Austin, TX	Small Molecule Interactions with Protein Assemblies "Drugging" the Protein-Protein Interface	32,500	0	32,500		0
F 1734	GOV	UT at Austin Austin, TX	Innovative Mechanism for the Synthesis of 3-D Nano-Superstructures by Designed Catalysis	120,000	0	80,000		40,000
F 1738	GOV	UT at Austin Austin, TX	Design and Synthesis of New Metalloligands for the Construction of Phosphine Coordination Materials with Advanced Solid-State Properties	97,500	0	65,000		32,500
F 1741	GOV	UT at Austin Austin, TX	Chemical, Biochemical and Structural Studies of Inflammation-Induced DNA Lesions	120,000	0	80,000		40,000
F 1756	GOV	UT at Austin Austin, TX	In Vivo Structural Characterization of Catalytic and Regulatory RNAs	0	195,000	97,500		97,500
F 1767	GOV	UT at Austin Austin, TX	Control of Protein Folding Quality: Portable Sequence Determinants of Antibody Stability	0	195,000	97,500		97,500
F 1778	GOV	UT at Austin Austin, TX	Visualization of the incorporation of molecule oxygen in endoperoxide bond formation using time-resolved X-ray crystallography	0	240,000	120,000		120,000
F 1780	GOV	UT at Austin Austin, TX	Comparing the Chemical Utility of Alternative Genetic Codes	32,500	0	32,500		0

#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
I 1785	GOV	UT at Austin Austin, TX	Identify Therapeutic Antibodies and Vaccine Candidates by Mining Human Antibody Repertoire in Malaria	32,500	0	32,500		0
I 1802	GOV	UT at Austin Austin, TX	Grant Sensitivity and Broadband Circular Dichroism in Plasmonic Metamaterials	120,000	0	80,000		40,000
I 1808	GOV	UT at Austin Austin, TX	Mapping the Proliferating Mechanisms of Cas9 Nuclease on a Hacked DNA Sequence	97,500	0	65,000		32,500
I 1811	GOV	UT at Austin Austin, TX	A Radical Proposal for How Transmembrane Transit of H4-Ions Can Generate an Oscillating Electric Field for Driving Rotation of the Flagellar Motor	120,000	0	80,000		40,000
I 1814	GOV	UT at Austin Austin, TX	Noninvasive Electrical Mapping of Chemical Processes in 2D Materials	97,500	0	65,000		32,500
I 1817	GOV	UT at Austin Austin, TX	Structure and Function of a Nano-Scale Biological Machine	97,500	0	65,000		32,500
I 1822	GOV	UT at Austin Austin, TX	Earth Abundant Metal Catalysis for Energy-Related Chemical Transformations	120,000	0	80,000		40,000
I 1830	GOV	UT at Austin Austin, TX	Programmed Self-Assembly of Nanostructures	120,000	0	80,000		40,000
I 1833	GOV	UT at Austin Austin, TX	NanoCluster Beacons for Highly Specific DNA Methylation Detection	97,500	0	65,000		32,500
I 1837	GOV	UT at Austin Austin, TX	Simulating Direct Images of the Covalent Bond from Atomic Force Microscopy	0	240,000	120,000		120,000
I 1841	GOV	UT at Austin Austin, TX	Design of Materials for Energy Conversion and Storage	0	330,000	165,000		165,000
I 1848	GOV	UT at Austin Austin, TX	Plasmonic Transparent Conducting Oxide Nanocrystals: Dopant Chemistry and Heterogeneity	0	330,000	165,000		165,000
I 1861	GOV	UT at Austin Austin, TX	Probing the Charge Storage Mechanisms of Molecularly-Assembled Two-Dimensional Inorganic Solids	0	240,000	120,000		120,000
I 1867	GOV	UT at Austin Austin, TX	Role of Surface Chemistry and Interfacial Charge on Methane Hydrate Nucleation	32,500	0	32,500		0
I 1870	GOV	UT at Austin Austin, TX	High-Throughput Chemical Screening for the Discovery and Development of Antimicrobial Peptides	32,500	0	32,500		0
I 1883	GOV	UT at Austin Austin, TX	Exploring the Use of Cu(II) in 19F Magnetic Resonance Contrast Agents for Imaging Biological Redox	32,500	0	32,500		0
I 1885	GOV	UT at Austin Austin, TX	Mapping Singlet Exciton Fission and Energy Transport Pathways in Polyene Dimeric Thin Films and Crystals with Femtosecond Time-Resolved Spectroscopy	32,500	0	32,500		0
I 1891	GOV	UT at Austin Austin, TX	Studies in Biophysical Chemistry: Applications of Ultrasound Infrared Spectroscopy	97,500	0	65,000		32,500
I 1895	GOV	UT at Austin Austin, TX	Development of Ambient Ionization Ion Mobility Mass Spectrometry Imaging for Spatial and Chemical Lipid Analysis in Biological Samples	97,500	0	65,000		32,500
I 1896	GOV	UT at Austin Austin, TX	Bridging Temporal and Spatial Scales in Membrane Modeling	97,500	0	65,000		32,500
I 1904	GOV	UT at Austin Austin, TX	Synthesis and Self-Assembly of Cooperatively Crystalline Block Copolymers	97,500	0	65,000		32,500
I 1924	GOV	UT at Austin Austin, TX	Synthesis and Characterization of Water and Ion Transport in Novel Ion Exchange Membrane Polymers	0	195,000	97,500		97,500
I 1925	GOV	UT at Austin Austin, TX	Effects of Chlorine Atoms on Tropospheric Oxidation Chemistry	0	195,000	97,500		97,500

#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
I 1929	GOV	UT at Austin Austin, TX	Peptide Directed Synthesis of Metal-Organic Frameworks	0	195,000	97,500		97,500
I 1938	GOV	UT at Austin Austin, TX	Chemical insights into substrate cleavage by CRISPR-Cas9	0	195,000	97,500		97,500
I 1941	GOV	UT at Austin Austin, TX	Probing the in vivo Chemistry in the Behaving Brain	0	195,000	97,500		97,500
G 1719	GOV	UT M D Anderson Cancer Center Houston, TX	Structure and Functions of a Novel Histone Activation Reader	48,750	0	48,750		0
H 1889	GOV	UT Medical Branch at Galveston Galveston, TX	Cryo-EM Analysis of the Integrator Complex	48,750	0	48,750		0
I 1128	GOV	UT Southwestern Medical Center Dallas, TX	Kinetic and Chemistry of the p38 MAPK Cascade	32,500	0	32,500		0
I 1243	GOV	UT Southwestern Medical Center Dallas, TX	Regulatory and Catalytic Properties of MAP Kinase Cascades	0	240,000	120,000		120,000
I 1244	GOV	UT Southwestern Medical Center Dallas, TX	Recognition of Cellular Nucleic Acids by Synthetic Oligomers	0	330,000	165,000		165,000
I 1257	GOV	UT Southwestern Medical Center Dallas, TX	Purine salvage pathways as potential drug targets in trypanosomatid parasites	0	330,000	165,000		165,000
I 1275	GOV	UT Southwestern Medical Center Dallas, TX	Ligand Binding Properties of Nematode Orphan Nuclear Receptors	55,000	0	55,000		0
I 1286	GOV	UT Southwestern Medical Center Dallas, TX	Mitochondrial Signaling by Reversible Phosphorylation	97,500	0	65,000		32,500
I 1304	GOV	UT Southwestern Medical Center Dallas, TX	NMR Methods to Study Membrane Proteins in Lipid Bilayers	165,000	0	110,000		55,000
I 1366	GOV	UT Southwestern Medical Center Dallas, TX	Evolutionary Dynamics and the Design of Natural Proteins	55,000	0	55,000		0
I 1389	GOV	UT Southwestern Medical Center Dallas, TX	Biochemical Mechanism of MAVS Activation by Prion-Like Polymerization	165,000	0	110,000		55,000
I 1420	GOV	UT Southwestern Medical Center Dallas, TX	Determining protein-lipid and protein-protein interactions for a channel involved in mechanosensing	0	240,000	120,000		120,000
I 1422	GOV	UT Southwestern Medical Center Dallas, TX	Synthesis and Chemical Biology of Bioactive Small Molecules	0	240,000	120,000		120,000
I 1441	GOV	UT Southwestern Medical Center Dallas, TX	Biochemical and Structural Analysis of Caldesin and Its Regulators	0	330,000	165,000		165,000
I 1505	GOV	UT Southwestern Medical Center Dallas, TX	Discovering New Chemistries with Whole Genome Sequencing	120,000	0	80,000		40,000
I 1532	GOV	UT Southwestern Medical Center Dallas, TX	Mechanisms of Importin 8-mediated nuclear import	0	240,000	120,000		120,000
I 1514	GOV	UT Southwestern Medical Center Dallas, TX	2D Phase Separated Protein Polymers: Interactions with Actin Filaments	0	330,000	165,000		165,000
I 1558	GOV	UT Southwestern Medical Center Dallas, TX	Mechanisms Underlying the Secretory Actions of TGF- $\beta$ 1 in Exocrine Pancreas	55,000	0	55,000		0
I 1560	GOV	UT Southwestern Medical Center Dallas, TX	Biochemical Analysis of an RNA Interference Pathway	55,000	0	55,000		0
I 1561	GOV	UT Southwestern Medical Center Dallas, TX	Using Chemistry and Genetics with VopQ to Decipher Vacuolar Fusion Events	40,000	0	40,000		0
I 1568	GOV	UT Southwestern Medical Center Dallas, TX	Isotopic-Selective Regulation of H3H1-Alpha by Isoprenoids	120,000	0	80,000		40,000

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#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Canceled	Balance 8.31.2017
1	1578	GOV UT Southwestern Medical Center Dallas, TX	Structural and Functional Studies of Ligand-Gated Cation Channels	120 000	0	80 000		40 000
1	1603	GOV UT Southwestern Medical Center Dallas, TX	Biochemical study of 11h signaling at the primary cilium	0	330 000	165 000		165 000
1	1608	GOV UT Southwestern Medical Center Dallas, TX	Chemoresens Mechanism of thiazoline odor-evoked Innate fear	0	195 000	97 500		97 500
1	1612	GOV UT Southwestern Medical Center Dallas, TX	New directions in asymmetric synthesis	0	240 000	120 000		120 000
1	1686	GOV UT Southwestern Medical Center Dallas, TX	Discovering the glycoconjugate receptors of pertussis toxin	0	240 000	120 000		120 000
1	1702	GOV UT Southwestern Medical Center Dallas, TX	Structural and Functional Analyses of the BCC IPH/RPL23 Complex	0	240 000	120 000		120 000
1	1704	GOV UT Southwestern Medical Center Dallas, TX	Post-Translational Modification of Host Enzymes by Bacterial Effector Proteins	40 000	0	40 000		0
1	1713	GOV UT Southwestern Medical Center Dallas, TX	Mechanisms for Histone H3 Lysine-to-Methionine Mediated Chromatin Mis-Regulation	32 500	0	0		32 500
1	1720	GOV UT Southwestern Medical Center Dallas, TX	The Biochemical Mechanism of the Glucose Sensing and Regulation of ChR1 BP	32 500	0	32 500		0
1	1724	GOV UT Southwestern Medical Center Dallas, TX	Chemical Regulation of Human Motor Neurons	40 000	0	40 000		0
1	1733	GOV UT Southwestern Medical Center Dallas, TX	Compartmentation of a Redox-Balancing Metabolic Activity in the Cancer Cell Peroxisome	120 000	0	80 000		40 000
1	1748	GOV UT Southwestern Medical Center Dallas, TX	Stereoselective Transformations of Dienes	120 000	0	80 000		40 000
1	1749	GOV UT Southwestern Medical Center Dallas, TX	Chemistry and Enzymology of MICAL Family Oxidoreductases	97 500	0	65 000		32 500
1	1751	GOV UT Southwestern Medical Center Dallas, TX	Biochemical Characterization of How Maternal Milk Impacts Offspring Epigenome and Metabolism	120 000	0	80 000		40 000
1	1770	GOV UT Southwestern Medical Center Dallas, TX	Capturing the active conformations of CNS GPCRs with nanobodies	0	330 000	165 000		165 000
1	1782	GOV UT Southwestern Medical Center Dallas, TX	Cooperation Assembly of HIV Transcription Elongation Complexes	32 500	0	32 500		0
1	1789	GOV UT Southwestern Medical Center Dallas, TX	Novel Imaging Probes for Investigating ER Membrane Contact Sites	32 500	0	32 500		0
1	1790	GOV UT Southwestern Medical Center Dallas, TX	Structural Basis and Chemical Modulation of Gene Silencing by Polyscumb Repressive Complex 2	32 500	0	32 500		0
1	1793	GOV UT Southwestern Medical Center Dallas, TX	Molecular Mechanisms of Cholesterol Sensors in Human Cells	32 500	0	32 500		0
1	1797	GOV UT Southwestern Medical Center Dallas, TX	Selective Regulation of Metabolism by a Conserved Inhibitor of TORC1	55 000	0	55 000		0
1	1800	GOV UT Southwestern Medical Center Dallas, TX	Targeting PARK1 for the Treatment of Small Cell Lung Cancer	40 000	0	40 000		0
1	1801	GOV UT Southwestern Medical Center Dallas, TX	Dysregulation of Intermediary Metabolism During Disease	120 000	0	80 000		40 000
1	1805	GOV UT Southwestern Medical Center Dallas, TX	Mechanistic Action of BCL-1 Compound Inhibitors in Cancer Therapeutics	97 500	0	65 000		32 500
1	1812	GOV UT Southwestern Medical Center Dallas, TX	Structural Principles of Inhibitory Neurotransmitter Receptor Modulation	97 500	0	65 000		32 500

#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Cancel	Balance 8.31.2017
1	1823	GOV UT Southwestern Medical Center Dallas, TX	Dissecting Dynamium Isoform-Specific Regulation of Clathrin Mediated Endocytosis	165,000	0	110,000		55,000
1	1827	GOV UT Southwestern Medical Center Dallas, TX	Regulation of Necroptosis by Casein Kinase I	97,500	0	65,000		32,500
1	1829	GOV UT Southwestern Medical Center Dallas, TX	Development of Covalent TAK1 Inhibitors	97,500	0	65,000		32,500
1	1831	GOV UT Southwestern Medical Center Dallas, TX	A Monogenic Immune Disorder Associated with Oligosaccharyltransferase Dysregulation	97,500	0	65,000		32,500
1	1832	GOV UT Southwestern Medical Center Dallas, TX	Biochemical Characterization of the Fatty Acid-UAS Domain Interaction	97,500	0	65,000		32,500
1	1834	GOV UT Southwestern Medical Center Dallas, TX	Identification of Potential Therapeutic compounds for Hematopoietic Regeneration	97,500	0	65,000		32,500
1	1840	GOV UT Southwestern Medical Center Dallas, TX	Probing oncogenic functions of vimentin filaments by small molecule screens	0	240,000	120,000		120,000
1	1851	GOV UT Southwestern Medical Center Dallas, TX	Structure and Function of microRNA Precursors	0	240,000	120,000		120,000
1	1855	GOV UT Southwestern Medical Center Dallas, TX	Design and synthesis of activatable pH-responsive water soluble dyes for biomedical imaging	0	240,000	120,000		120,000
1	1864	GOV UT Southwestern Medical Center Dallas, TX	Identification of Autophagy-Specific Factors for Autophagosome-Lysosome Fusion	0	240,000	120,000		120,000
1	1865	GOV UT Southwestern Medical Center Dallas, TX	Apoptosome Caspase Control Lango7	32,500	0	32,500		0
1	1868	GOV UT Southwestern Medical Center Dallas, TX	Development of Anticancer Immunotherapeutic Agents	32,500	0	32,500		0
1	1873	GOV UT Southwestern Medical Center Dallas, TX	Novel Pathways of IRL-Indolylsomal Inter-Organic Communication	32,500	0	32,500		0
1	1874	GOV UT Southwestern Medical Center Dallas, TX	Engineering Antibacterial Lectins for Specific Targeting of Antibiotic-Resistant Bacteria	32,500	0	32,500		0
1	1875	GOV UT Southwestern Medical Center Dallas, TX	Small Molecule Inhibitors Selectively Targeting Malaria Lipogenic Enzymes	32,500	0	32,500		0
1	1879	GOV UT Southwestern Medical Center Dallas, TX	Expanding the Druggable Genome	32,500	0	32,500		0
1	1881	GOV UT Southwestern Medical Center Dallas, TX	Dissecting Novel Mechanisms of Lung Cancer Pathogenesis	32,500	0	32,500		0
1	1892	GOV UT Southwestern Medical Center Dallas, TX	Role of Chromatin Remodeling in ALI-Positive Cancers	97,500	0	65,000		32,500
1	1897	GOV UT Southwestern Medical Center Dallas, TX	Structural and Biochemical Characterization of DI AD-Box ATPase Function and Regulation During Ribosome Biogenesis	97,500	0	65,000		32,500
1	1901	GOV UT Southwestern Medical Center Dallas, TX	In situ Measurement of Inter-Receptor Interaction Kinetics on the Cell Surface	97,500	0	65,000		32,500
1	1902	GOV UT Southwestern Medical Center Dallas, TX	Fluorescent Probes for Cellular Imaging	97,500	0	65,000		32,500
1	1903	GOV UT Southwestern Medical Center Dallas, TX	Regulation of Hypoxia-Inducible Factor 1 Transcriptional Activity by the Histone Modifier	97,500	0	65,000		32,500
1	1906	GOV UT Southwestern Medical Center Dallas, TX	Biochemical Characterization of Factors Regulating Subcellular Trafficking and Function of Membrane Adenylate/Guanylate Cyclases	97,500	0	65,000		32,500
1	1908	GOV UT Southwestern Medical Center Dallas, TX	Structure and Biochemistry of a Microtubule Regulatory Protein	97,500	0	65,000		32,500

#	Code	Grantee	Description	Balance 8/31/2016	Total Approved	Total Paid	Cancel	Balance 8/31/2017
1	1910	GOV	UT Southwestern Medical Center Dallas, TX	97,500	0	65,000		32,500
1	1911	GOV	UT Southwestern Medical Center Dallas, TX	97,500	0	65,000		32,500
1	1914	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1915	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1919	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1920	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1923	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1926	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1927	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1928	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1932	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1934	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1936	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1939	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1940	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
1	1942	GOV	UT Southwestern Medical Center Dallas, TX	0	195,000	97,500		97,500
N	1900	PC	Southern Methodist University Dallas, TX	113,750	0	113,750		0
P	1212	PC	Texas Christian University Fort Worth, TX	60,000	0	60,000		0
Q	1279	PC	Baylor College of Medicine Houston, TX	82,500	0	82,500		0
Q	1512	PC	Baylor College of Medicine Houston, TX	140,000	0	100,000		40,000
Q	1530	PC	Baylor College of Medicine Houston, TX	140,000	0	100,000		40,000
Q	1673	PC	Baylor College of Medicine Houston, TX	140,000	0	100,000		40,000
Q	1739	PC	Baylor College of Medicine Houston, TX	0	240,000	120,000		120,000

	#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Cancel	Balance 8.31.2017
Q	1826	PC	Baylor College of Medicine Houston, TX	Chemical Mechanisms of Muscle Contraction and Regulation	140,000	0	100,000		-40,000
Q	1866	PC	Baylor College of Medicine Houston, TX	Mapping Chromatin Loop Dynamics in Differentiating Hematopoietic Cells	-48,750	0	-48,750		0
Q	1912	PC	Baylor College of Medicine Houston, TX	Chemical Imaging of Glutathione Spatiotemporal Dynamics During Aging	113,750	0	81,250		32,500
W	1640	PC	Trinity University San Antonio, TX	Multivalent Cucurbiturils for High-Affinity Reversible Binding	140,000	0	110,000		0
W	1905	PC	Trinity University San Antonio, TX	Mechanism of a Small Protein at the Heart of Spliceosome Activation	113,750	0	113,750		0
Y	1289	GOV	UT at Arlington Arlington, TX	Metal Complexes of Highly Fluorinated Ligands	110,000	0	0		110,000
Y	1362	GOV	UT at Arlington Arlington, TX	Total Synthesis of Spirocyclic Marine Sponge-Derived Alkaloids	0	0	0		0
Y	1933	GOV	UT at Arlington Arlington, TX	Photothermochemical Liquid Hydrocarbon Synthesis from Water and Carbon Dioxide	0	195,000	65,000		130,000
Y	747	GOV	Texas A&M University College Station, TX	Fundamental Investigations of Intermolecular Interactions Involving Quantum Cascade Laser Superstrong Raman Spectroscopy	60,000	0	0	60,000	0
YU	1711	GOV	UT HSC at Houston Houston, TX	Dissection of Mechanisms for Polyubiquitin Chain Synthesis	48,750	0	0	48,750	0
F	1709	GOV	UT at Austin Austin, TX	Photochemical Approach for Programming and Directing Surface Energy Driven Marangoni Convection to Generate Topographic Patterns in Polymer Thin Films	40,000	0	0	40,000	0
F	1283	GOV	UT at Austin Austin, TX	Studies in Quantum Chemistry	55,000	0	0	55,000	0
F	1665	GOV	UT Southwestern Medical Center Dallas, TX	Functional Interrogation of Extracellular Protein Lipidation	120,000	0	0	80,000	-40,000
AO	0001	GOV	Midwestern State Univ	Chemistry Department Grant	0	105,000	35,000		70,000
AL	0002	GOV	Plaine View A&M Univ	Chemistry Department Grant	80,000	0	40,000		-40,000
AZ	0003	PC	Texas Wesleyan Univ	Chemistry Department Grant	0	90,000	30,000		60,000
V	0004	GOV	Lamar Univ	Chemistry Department Grant	35,000	0	35,000		0
AF	0005	PC	Southwestern Univ	Chemistry Department Grant	40,000	0	40,000		0
AC	0006	GOV	Texas A&M Univ -Kingsville	Chemistry Department Grant	30,000	0	30,000		0
AD	0007	PC	Austin College	Chemistry Department Grant	80,000	0	40,000		-40,000
AN	0008	GOV	Stephen F. Austin State Univ	Chemistry Department Grant	80,000	0	40,000		40,000
AM	0010	PC	Huston-Tillotson Univ	Chemistry Department Grant	15,000	0	15,000		0
N	0011	GOV	Sam Houston State Univ	Chemistry Department Grant	40,000	0	40,000		0
AS	0012	GOV	Lakeland State Univ	Chemistry Department Grant	0	105,000	35,000		70,000
AW	0013	GOV	UT of the Permian Basin	Chemistry Department Grant	0	75,000	25,000		50,000
F	0014	GOV	Texas A&M Univ -Commerce	Chemistry Department Grant	25,000	0	25,000		0
BA	0015	PC	Univ. Of Dallas	Chemistry Department Grant	30,000	0	30,000		0
BF	0016	PC	Houston Baptist Univ	Chemistry Department Grant	70,000	0	35,000		35,000
BH	0018	PC	St. Edward's Univ	Chemistry Department Grant	70,000	0	35,000		35,000
AR	0019	PC	Texas Lutheran Univ	Chemistry Department Grant	50,000	0	25,000		25,000
AI	0020	GOV	Texas Woman's Univ	Chemistry Department Grant	70,000	0	35,000		35,000
R	0021	PC	Abilene Christian Univ	Chemistry Department Grant	0	120,000	10,000		80,000
BC	0022	GOV	Univ. of Houston-Clear Lake	Chemistry Department Grant	0	90,000	30,000		60,000



The Robert A. Welch Foundation

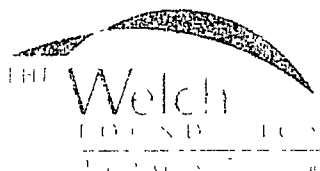
Taxpayer's ID 76-0343128  
Schedule 9

#	Code	Grantee	Description	Balance 8.31.2016	Total Approved	Total Paid	Cancel	Balance 8.31.2017
AV 0024	PC	Univ of St Thomas	Chemistry Department Grant	35,000	0	35,000		0
AE 0025	GOV	West Texas A&M Univ	Chemistry Department Grant	30,000	0	30,000		0
BJ 0027	GOV	Univ of Houston-Downtown	Chemistry Department Grant	40,000	0	40,000		0
BL 0028	PC	LeTourneau Univ	Chemistry Department Grant	50,000	0	25,000		25,000
AJ 0029	GOV	Angelo State Univ	Chemistry Department Grant	0	90,000	30,000		60,000
BM 0030	PC	Jarvis Christian College	Chemistry Department Grant	0	60,000	20,000		40,000
W 0031	PC	Trinity Univ	Chemistry Department Grant	40,000	0	40,000		0
BN 0032	PC	Univ of the Incarnate Word	Chemistry Department Grant	40,000	0	40,000		0
AY 0033	PC	Univ of Mary Hardin-Baylor	Chemistry Department Grant	30,000	0	30,000		0
BO 0034	PC	Schreiner University	Chemistry Department Grant	50,000	0	25,000		25,000
AG 0035	PC	Hardin-Simmons	Chemistry Department Grant	0	75,000	25,000		50,000
Z 0036	PC	McMurry University	Chemistry Department Grant	0	75,000	25,000		50,000
BP 0037	GOV	UT at Tyler	Chemistry Department Grant	0	105,000	35,000		70,000
BT 0041	GOV	TAMU Univ - Corpus Christi	Chemistry Department Grant	80,000	0	40,000		40,000
BU 0042	PC	Our Lady of the Lake University	Chemistry Department Grant	30,000	0	15,000		15,000
BV 0043	PC	Lubbock Christian Univ	Chemistry Department Grant	0	90,000	30,000		60,000
BW 0044	PC	Wayland Baptist Univ	Chemistry Department Grant	0	75,000	25,000		50,000
U 0047	PC	St. Mary's University	Chemistry Department Grant	0	105,000	35,000		70,000
BX 0048	GOV	UT-Rio Grande Valley	Chemistry Department Grant	80,000	0	40,000		40,000
K 0052	I	Conference	The Welch Foundation Conference on Chemical Research	0	471,958	471,958		0
K 0036	I	Hackerman Award	Norman Hackerman Award in Chemical Research	0	522,353	522,353		0
K 0527	I	Welch Award	The Welch Foundation Award in Chemistry	0	1,128,921	1,128,921		0
K 127	SO III FI	Texas Interscholastic League Foundation	Undergraduate Scholarships	1,050,000	0	208,250	94,500	747,250
F 0001	GOV	UT at Austin	Welch Summer Scholar Program	0	394,000	102,000		292,000
K 0029	PC	The Academy of Medicine, Engineering & Science of Texas	TAMEST 2018 Annual Conference	0	25,000	25,000		0
Q 0042	PC	Baylor College of Medicine Houston, TX	Innovation in DNA-Encoded Chemistry to Discover Next-Generation Drugs in Center for Drug Discovery (CDD)	0	1,100,000	1,100,000		0
Total				20,477,500	29,899,732	29,899,732	378,250	20,046,750
			Approved and paid current year	15,249,535				
			Approved for future payment	14,597,697				



Institution	Address	
R Abilene Christian University	ACU Station, Box 29100	Abilene, TX 79699-9100
AJ Angelo State University	P O Box 11007, ASU Station	San Angelo, TX 76909
AD Austin College	900 North Grand Avenue	Sherman TX 75090-4440
Q Baylor College of Medicine	One Baylor Plaza, Suite 143A	Houston, TX 77030
AA Baylor University	One Bear Place #97096	Waco, TX 76798-7096
AG Hardin-Simmons University	Box 16000	Abilene, TX 79698-6000
BF Houston Baptist University	7502 Fondren Road	Houston TX 77074-3298
AM Huston-Tillotson University	900 Chicon Street	Austin TX 78702-2795
BM Jarvis Christian College	P O Box 1470	Hawkins, TX 75765-1470
V Lamar University	P O Box 10001	Beaumont, TX 77710
BL Letourneau University	P O Box 7001	Longview, TX 75607-7001
BV Lubbock Christian University	5601 19th Street	Lubbock, TX 79407-2099
Z McMurry University	McMurry Station Box 98	Abilene, TX 79697
AO Midwestern State University	3410 Taft Boulevard	Wichita Falls, TX 76308
BU Our Lady of The Lake University	411 S W 24th Street	San Antonio, TX 78207-4689
L Prairie View A&M University	P O Box 519	Prairie View, TX 77446-0519
C Rice University	P O Box 1892, MS-1	Houston TX 77251-1892
X Sam Houston State University	SHSU Box 2026	Huntsville, TX 77341-2026
BO Schreiner University	2100 Memorial Boulevard	Kerrville TX 78028-5697
N Southern Methodist University	P O Box 750100	Dallas TX 75275-0100
AF Southwestern University	1001 East University Avenue	Georgetown TX 78626-0770
BH St Edward's University	3001 South Congress Avenue	Austin, TX 78704
U St Mary's University	One Camino Santa Maria Box 72	San Antonio TX 78228
AN Stephen F Austin State University	SFA Station, Box 6078	Nacogdoches, TX 75962 6078
AS Tarleton State University	P O Box T0001, Tarleton Station	Stephenville TX 76402
BS Texas A&M International University	5201 University Boulevard	Laredo, TX 78041-1900
A Texas A&M University	1246 TAMU	College Station TX 77843-1246
BD Texas A&M University at Galveston	PO Box 1675	Galveston, TX 77553-1675
BE Texas A&M University System HSC	8447 State Highway 47, MS 1359	Bryan, TX 77807-3260
T Texas A&M University-Commerce	P O Box 3011	Commerce TX 75429-3011
BT Texas A&M University-Corpus Christi	6300 Ocean Drive	Corpus Christi, TX 78412
AC Texas A&M University-Kingsville	MSC 101 700 University Boulevard	Kingsville, TX 78363-8202
P Texas Christian University	TCU Box 297080	Fort Worth, TX 76129
AR Texas Lutheran University	1000 West Court Street	Seguin, TX 78155-5978
AI Texas State University-San Marcos	601 University Drive, JCK 489	San Marcos, TX 78666
D Texas Tech University	Box 42005	Lubbock, TX 79409-2005
BI Texas Tech University Health Sciences Center	3601 4th Street, STOP 6258	Lubbock, TX 79430
AZ Texas Wesleyan University	1201 Wesleyan Street	Fort Worth, TX 76105-1536
M Texas Woman's University	P O Box 425587	Denton TX 76204-5587
AH The University of Texas at El Paso	500 West University Avenue	El Paso, TX 79968-0500
AQ The University of Texas HSC at San Antonio	7703 Floyd Curl Drive, MSC 7834	San Antonio, TX 78229-3900
AT The University of Texas at Dallas	P O Box 830688	Richardson, TX 75083-0688
AU The University of Texas HSC at Houston	P O Box 20036	Houston, TX 77225-0036
AW The University of Texas of The Permian Basin	4901 E University	Odessa, TX 79762-8301
AX The University of Texas at San Antonio	6900 N Loop 1604 West	San Antonio, TX 78249
BP The University of Texas at Tyler	3900 University Boulevard	Tyler, TX 75799
BX The University of Texas Rio Grande Valley	2102 Treasure Hills Boulevard	Harlingen TX 78550
F The University of Texas at Austin	Main Building 302, MC G1400	Austin, TX 78712-1111
G The University of Texas M D Anderson Cancer Center	1515 Holcombe Blvd , Unit 541	Houston, TX 77030-4009
I The University of Texas Southwestern Medical Center	5323 Harry Hines Boulevard	Dallas, TX 75390-9002
Y The University of Texas at Arlington	701 South Nedderman Drive	Arlington, TX 76019-0125
W Trinity University	One Trinity Place	San Antonio, TX 78212-7200
BA University of Dallas	1845 East Northgate Drive	Irving TX 75062
E University of Houston	4800 Calhoun Road	Houston, TX 77004-2018
BC University of Houston-Clear Lake	2700 Bay Area Boulevard	Houston, TX 77058-1098
BJ University of Houston-Downtown	One Main Street, Room 990-S	Houston, TX 77002
AY University of Mary Hardin-Baylor	900 College Street, UMHB Box 8001	Belton, TX 76513-2599
B University of North Texas	1155 Union Circle, #311425	Denton, TX 76203-5017
BK University of North Texas HSC	3500 Camp Bowie Boulevard	Fort Worth, TX 76107-2699
AV University of St Thomas	3800 Montrose Boulevard	Houston, TX 77006-4626
BN University of The Incarnate Word	4301 Broadway	San Antonio TX 78209
H UT Medical Branch at Galveston	301 University Boulevard	Galveston, TX 77555-0156
BW Wayland Baptist University	1900 West 7th Street	Plainview, TX 79072-6998
AE West Texas A&M University	WTAMU Box 60997	Canyon TX 79016-0001
BR Wiley College	711 Wiley Avenue	Marshall TX 75670

NOTE The Robert A Welch Foundation has no relationship to report with the listed donees



## THE ROBERT A. WELCH AWARD IN CHEMISTRY

### PURPOSE OF THE AWARD

The purpose of The Robert A. Welch Award in Chemistry is to foster and encourage basic chemical research and to recognize, in a substantial manner, the value of chemical research contributions for the benefit of mankind as set forth in the will of Robert Alonzo Welch. The founder was interested in chemistry, and in its service to both the betterment and the understanding of human life. It is also believed this award will play an important role in aiding and strengthening the other programs of the Foundation.

In accordance with these principles, any person can be considered for the award who has made important chemical research contributions which have a significant, positive influence on mankind. The award is intended to recognize contributions that have not previously been rewarded in a similar manner.

### NOMINATIONS

Any person can submit a nomination for consideration, though no person may nominate oneself. Directors and officers of the Foundation and members of the Scientific Advisory Board of the Foundation may not make nominations nor are they eligible to receive the award.

All nominations must include (a) a detailed description of the research areas in chemistry on which the nomination is based, (b) a brief biographical sketch of the proposed nominee, (c) a list of 25 of the nominee's most important scientific publications, and (d) not more than three seconding nomination letters.

Nominations must be received in the Foundation office by the last business day of January each year and will remain eligible for five years without revision.

Nominations and supporting letters may be mailed to: The Welch Foundation, 5555 San Felipe, Suite 1900, Houston, TX 77056-2730. Questions or digital submissions may be sent to [welchaward@welch1.org](mailto:welchaward@welch1.org).

### AWARD PROCEDURE

The Scientific Advisory Board will consider whether or not any nominee or nominees are worthy of the award, and will recommend to the Board of Directors not more than three nominees they determine are qualified to receive the award. The Board of Directors will make the final selection.

The Robert A. Welch Award in Chemistry shall be awarded, when justified. The recipient will be required to be present at a ceremony and dinner held in October. The monetary amount of the award is \$500,000.



## NORMAN HACKERMAN AWARD IN CHEMICAL RESEARCH

### PURPOSE OF THE AWARD

The Welch Foundation's Norman Hackerman Award in Chemical Research was established to recognize the accomplishments of chemical scientists in Texas who are in their early careers and to serve as an encouragement to those who are embarking on careers dedicated to increasing our fundamental understanding of chemistry. The award is intended for the personal benefit of the recipient, and carries no requirement for future services as a condition of receiving it.

### NOMINATIONS

The award will be made on an annual basis, when warranted, to a scientist conducting chemical research in Texas. On June 30 for the year nominated, a candidate for the award must be within 10 years of his or her initial appointment as an assistant professor or equivalent. For example, for the 2017 award, the initial appointment of the candidate as an assistant professor or equivalent must have begun no earlier than July 1, 2007.

Any person may submit a nomination for consideration, though no person may nominate oneself. To be eligible, a nominee must have spent the most recent three (3) years ending September 30, 2016 doing chemical research in Texas. Directors and Officers of the Foundation and members of the Scientific Advisory Board of the Foundation are not eligible to receive the award.

The nomination must include (a) a detailed description of the basis for the nomination, (b) a complete curriculum vitae including the nominee's date of birth, the date of initial appointment as an assistant professor or equivalent, and the year the nominee began doing chemical research in Texas, (c) a complete publication listing including a copy of 3-5 of the nominee's most important research publications, and (d) three (3) supporting letters from individuals in the nominee's field. The supporting letters should be mailed independently and directly to the Foundation.

Nominations and supporting letters may be mailed to: The Welch Foundation, 5555 San Felipe, Suite 1900, Houston, TX 77056-2730. Questions or digital submissions may be sent to [nhacr@welch1.org](mailto:nhacr@welch1.org).

### AWARD PROCEDURE

The Scientific Advisory Board of the Foundation will review all complete nominations that are received in the Foundation office by September 15. If September 15 falls on a Saturday or Sunday, the nomination must be received on the preceding Friday.

The Scientific Advisory Board will consider whether or not any nominee or nominees are worthy of the award, and will recommend to the Board of Directors not more than three nominees they determine are qualified to receive the award. The Board of Directors will make the final selection.

The award will normally be presented at a function on the campus of the recipient's institution. The current monetary amount of the award is \$100,000.



Departmental Grant Program  
Guidelines and Procedures  
Effective November 1, 2016

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## GENERAL INFORMATION

### Purpose

The purpose of the grant is to support chemical research by members of the chemistry faculty, and to provide an opportunity for students to study chemistry in a less structured way

### Eligibility

Applications are restricted to colleges and universities that offer undergraduate degree programs in chemistry, biochemistry or chemical engineering and are located within the state of Texas. The colleges and universities should also be listed as an educational institution by the Texas Higher Education Coordinating Board.

Proposal submissions are by invitation only.

### Grant Applications

Applications must be submitted by September 15 of the year invited to be considered for the next grant year, June 1 - May 31.

The Foundation will respond to all grant applications. Awards will require formal acceptance by the grantee institution of the Foundation's award letter and all terms and conditions stated in these Departmental Grant Program Guidelines and Procedures.

The official online application on proposalCENTRAL must be used. All information requested in the online application and attachments must be supplied. Failure to do so will disqualify the application.

Proposals being submitted should cover a three-year period.

### Proposal Review

The Scientific Advisory Board will review all proposals and will make funding recommendations to the Board of Directors. The Board of Directors will make all final decisions. All applicants will be notified of the decision on their proposal in early November.

## APPLICATION INSTRUCTIONS

The proposalCENTRAL website (<https://proposalcentral.altum.com>)

***Deadline to submit an application is 6:00 PM EST on September 15.***

### Getting started in proposalCENTRAL

New users of proposalCENTRAL will need to create an account by using the "Create One Now!" link and complete the registration process. After you register, complete your Professional Profile before starting an application.

Current registered users with proposalCENTRAL can login with your username and password

To start an application, select the "Grant Opportunities" tab. A list of applications will be displayed. From the filter drop down menu, select "Welch Foundation" and click "Go". The departmental grant application will appear. Click the "Apply Now" link to begin your application.

If you have difficulties registering, logging in or creating your application, contact proposalCENTRAL  
Customer Support  
Toll-free U S and Canada 1-800-875-2562 Email [pcsupport@altum.com](mailto:pcsupport@altum.com)  
Normal Business Hours 8 30 am – 5 00 pm EST (Monday - Friday)

## Application Format

The following information is required to submit a complete application. Numbers correspond to the application sections that appear on the left side of the online application

1. *Title Page* Enter *Departmental Grant* in the field titled "Project Title" Click either "Yes" or "No" to the question "Have you submitted this proposal before?" If "Yes", fill in the "Date of Previous Submission" and in the "Previous Proposal Number" field, select either "Prior Proposal Not in proposalCENTRAL" or one of the project titles shown in the drop down menu If "No", you can leave those fields blank Input your current Welch grant number, if you have one, in the corresponding field asking for the application number. Click "Yes" or "No" for the question "Are you submitting your application from an institution located within the state of Texas?" Next to "Degrees Offered" select the undergraduate degrees offered at your institution.
2. *Download Templates & Instructions* The program guidelines and procedures document and any other required templates to be completed with this application will appear in this section Click the "Download" button to the left of the description to save the file to your own computer. Any templates will need to be completed, converted to a PDF file and uploaded back into Section 11.
3. *Enable Other Users to Access this Proposal.* This section allows you to give other users access to your grant application at varying levels of permissions. This is where you would add Sponsored Projects personnel or other department faculty to give them the necessary access to your application. If you click "Auto Notify" next to their name, they will receive an email letting them know you have added them.
4. *Applicant/PI.* Complete the required information for the applicant. You can edit your Professional Profile from here to complete the required data
5. *Institution and Institution Officials.* Enter information for the required Signing Official and Department Chair for your institution.
6. *Chemistry/Biochemistry Graduates.* Enter in the appropriate categories the number of undergraduate students who have graduated over the past three years and who have either gone on to postbaccalaureate work in chemistry, biochemistry, chemical engineering, medicine, or other allied sciences or who have gone into industry or other areas. Be sure to enter a total of all categories in the "Total" field as it does not calculate
7. *Grant Objective.* Enter a brief summary of the grant objective for your department. This summary is limited to 2,000 characters (including spaces). Any additional characters beyond this limit will be truncated once you move on to the next section. To ensure you comply with the character limit, it is advised to draft your summary in Microsoft Word or similar program which can give you a character count
8. *Budget Period Detail* Enter a fiscal year start date of June 1 and an ending fiscal year date of May 31 of each period. You must complete all three periods for the budget. These are shown as Period 1, Period 2 and Period 3 and are separated in different windows The total annual expenditures should be submitted for the annual grant amounts offered in your invitation letter Funds may be utilized for direct expenditures in accordance with the following:

- a. Stipends, Fellowships and Scholarships – Faculty summer research stipends shall not exceed the monthly academic salary rate and the total of the faculty summer research stipend and fringe benefits combined must not exceed 20% of the annual grant amount per year (not including carryover amounts) Undergraduate scholarship appointments must cover a meaningful period such as an academic year, semester, or summer session Graduate fellowship appointments must cover a meaningful period that is not less than three consecutive months
  - b. Fringe Benefits – Amounts may be paid for individuals receiving stipends, fellowships or scholarships at rates approved by the institution.
  - c. Permanent Scientific Equipment – Items with at least one year useful life expectancy and costing a minimum of \$5,000.
  - d. Expendable Scientific Items, Services and Equipment Maintenance – The grantee institution must maintain a record of actual expenditures, by category, for inclusion in the financial statement
  - e. Publication Expenses – Expenses for publishing the results of research accomplished with the grant.
  - f. Travel – Foreign or domestic travel expenses, including registration fees, by the participating faculty and current fellowship or scholarship recipients under the grant Travel must be relevant to the research Total expenditures may not exceed \$2,500 per grant year
  - g. Grant funds for direct expenditures may be utilized for any proper purpose beneficial to the research and not specifically excluded by the Foundation. Any expenditure made outside of these guidelines may result in a request for refund The following are excluded as direct expenditures:
    - i. General office supplies, equipment or expenses
    - ii. Building construction, alteration, renovation, rent or utilities.
    - iii. Personnel expenses other than fellowships and scholarships as detailed above.
    - iv. Consultant fees and/or related expenditures
    - v. Student tuition or fees
    - vi. Membership dues.
    - vii. Overhead.
9. *Budget Summary* A summary of the proposed budget appears here Fields are auto-populated per the data entered in Section 8
10. *Active and Pending Research Support.* Any other active and applied for research support must be entered into your Professional Profile If you have not done so at this point, you can click on "Edit Professional Profile" and add the information Once entered into your profile, you can then go back to Section 10 and click "Add New Entry". If the data is already in your Professional Profile, you may simply click "Add New Entry" and select the applicable records If you do not have any additional support, click "Add New Entry" and select "N/A".
11. *Application Attachments* Prepare and upload the following documents into your application in PDF format:
- a. Research Description – Describe the proposed research to be conducted by the faculty and student participants. This section should be no more than five pages including any exhibits. References are not included in the five-page limitation This detailed description must utilize a font size of 11 points or larger, line spacing must be at least 1.5 spaced but no more than five lines of text per vertical inch, and margins must be at least an inch in all directions
  - b. Chemistry Faculty Members – This is a template you should have downloaded and filled in all the required information on all faculty members in the department This list should include everyone whether they participated on the grant or not

- c. Anticipated Student Participants – This is a template you should have downloaded and filled in all the required information pertaining to students you anticipate participating in research on the grant
  - d. Faculty Biosketch – A biosketch should be uploaded for each faculty member and must be limited to one page per person
  - e. Signature Page(s) – This page will be automatically generated as part of your application. It will have to be printed, signed and uploaded by the appropriate Sponsored Projects or similar office at your institution
12. *Validate* Validate the application on proposalCENTRAL. This is an essential step and checks for required data and attachments. You will not be able to submit your application if all the required information has not been provided. An application that has not been validated cannot be submitted
13. *Signature Page(s)* After successfully passing the validate check, you may click “Print Signature Pages and Attached PDF Files” to preview your application
14. *Submit.* After you have clicked the “Submit” button, an email will be sent to you confirming your submission. At this point you can no longer edit any portion of your application without “unsubmitting” your application.

## POST AWARD GUIDELINES AND PROCEDURES

### Control of Research

The conduct and supervision of all research performed under a Foundation grant shall be within the exclusive control of the grantee institution. In accepting a grant, the grantee institution agrees to assume the entire responsibility for the research, for taking any necessary precautions for protection of persons and property, for proper operation and maintenance of all equipment in research activities and for safe disposal of any hazardous waste materials.

### Appointments

The purpose of undergraduate scholarships and graduate fellowships is education and training in chemistry through research. All scholarships and fellowships must have signed letters of appointment at the grantee institution. A recipient-signed appointment/acceptance letter must be retained on file at the grantee institution for examination when required.

There shall not be any employer-employee relationship between the Foundation and the faculty members or recipients of appointments under Foundation grants

### Attribution Rights

Any publication in scientific media shall include an acknowledgement referencing the Welch grant number and stating that the research was funded in part by a grant from The Welch Foundation. In addition, the background section of any patent application filed on an invention made with the assistance of a Welch Foundation grant shall include an acknowledgement referencing the Welch grant number and stating that the development of this invention was funded in part by The Welch Foundation.

### Grant Payments

Grant funds will normally be paid by the Foundation at the beginning of the grant year which is June 1st



**Deliverables** (Year-End Reports) (must be submitted through proposalCentral by the last business day of July of each year)

1. **Progress Report** (proposalCentral Template) Report the progress of the grant and other required information for the grant year (June 1 – May 31) Reminder emails will be sent prior to the deadline
2. **Expenditures** (Financial Statement) (proposalCentral Template). Report expenditures during the most recent grant year (June 1 - May 31) All amounts should be reported on a cash basis Reminder emails will be sent prior to the deadline.
3. **Carry Forward** (Amended Budget Request) (proposalCentral Template). Take amount of carry forward created by your expenditures and report the anticipated categories the carry forward will be moved to in the following grant period. An unexpended balance carry forward of more than \$10,000 must be accompanied by a letter from the grantee institution explaining the circumstances and the need.

**Note:** Input for both expenditures and carry forward are found in the “Budget” area of proposalCentral grant record

#### **Termination of Grants**

A grant may be cancelled for cause if progress toward the objective of the grant is not being made satisfactorily or if the grantee institution is not in compliance with the terms and conditions of the award letter. Once the department or grantee institution is aware the grant will terminate, expenditures can no longer be made for permanent scientific equipment. In addition, any expenses for expendable scientific items must be for items that will be utilized during the remainder of the grant term.

The following shall be forwarded to the Foundation within 60 days after the termination of a grant for any reason:

1. Final Progress Report.
2. Final Financial Statement.

A refund of any unexpended balance will be requested after the Final Financial Statement has been approved

#### **Documentation**

As a condition of a grant, all documents in connection with a grant must be signed by persons authorized by the institution to sign such documents. In addition, all documents in connection with a grant may be signed in multiple counterparts and delivered by facsimile, email, U.S. mail, or otherwise, each of which signatures shall be deemed an original.

GRANT OBJECTIVE

APPLICANT NAME	DATE SUBMITTED
INSTITUTION	
DEPARTMENT	ACADEMIC RANK
TITLE OF PROJECT Departmental Grant	

Do not include proprietary/confidential information.

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Applicant

Application Contacts

Role		Role	
Name		Name	
Institution		Institution	
Title		Title	
Division		Division	
Dept		Dept	
Address		Address	
Tel		Tel	
	Fax		Fax
E-mail		E-mail	
Role		Role	
Name		Name	
Institution		Institution	
Title		Title	
Division		Division	
Dept		Dept	
Address		Address	
Tel		Tel	
	Fax		Fax
E-mail		E-mail	
Role		Role	
Name		Name	
Institution		Institution	
Title		Title	
Division		Division	
Dept		Dept	
Address		Address	
Tel		Tel	
	Fax		Fax
E-mail		E-mail	
Role		Role	
Name		Name	
Institution		Institution	
Title		Title	
Division		Division	
Dept		Dept	
Address		Address	
Tel		Tel	
	Fax		Fax
E-mail		E-mail	

Chemistry/Biochemistry Graduates

Number of Chemistry Graduates	
Number of Biochemistry Graduates	
Number of Chemical Engineering Graduates	
Number of Medicine Graduates	
Number of Other Allied Sciences Graduates	
Number of Industry Graduates	
Number of Other Graduates	
Number of Total Graduates	

Proposal To: Welch Foundation    *Departmental Grants*  
Title (Applicant):  
**Active and Pending Research Support**

1.

## Chemistry Faculty

	First Name	Last Name	Academic Rank	Discipline	Time Period Participated
1					
2.					
3					
4					
5					
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7					
8					
9					
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### Anticipated Student Participants

	First Name	Last Name	Student Level (Undergraduate or Graduate)	Time Period Supported
1.				
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APPLICANT:

PROPOSED BUDGET					
	Period 1	Period 2	Period 3		
Start Date (mm/dd/yyyy)					
End Date (mm/dd/yyyy)					

**Personnel Direct Costs**

Salary					
Fringe					
Subtotal Personnel Costs					

**Non - Personnel Direct Costs**

Permanent Scientific Equipment					
Expendable Scientific Items, Services, and Equipment					
Publication Expenses					
Travel (not to exceed \$2,500 per grant year)					
<font color = red>Carry Forward (when Internal Use)					
Subtotal Non-Personnel Costs					
TOTAL DIRECT COSTS					

TOTAL COSTS					



Research Grant Program  
Guidelines and Procedures  
Effective November 1, 2016

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## GENERAL INFORMATION

### Purpose

The purpose of the research grant program is to support fundamental chemical research at educational institutions within the state of Texas

### Eligibility

Applications are restricted to universities, colleges or other educational institutions located within the state of Texas and also listed as an educational institution by the Texas Higher Education Coordinating Board

A principal investigator applying for a research grant must be a full-time regular faculty member with tenure or on tenure track.

Only one proposal per year may be submitted by a principal investigator. In addition, any principal investigator with other Welch funding is not normally eligible to apply for any additional Welch funding during the grant period

### Grant Applications

Applications must be submitted by the last business day of January to be considered for the next grant year, June 1 - May 31

The Foundation will respond to all grant applications. Awards will require formal acceptance by the grantee institution of the Foundation's award letter and all terms and conditions stated in these Research Grant Program Guidelines and Procedures.

The official online application on proposalCENTRAL must be used. All information requested in the online application and attachments must be supplied. Failure to do so will disqualify the application.

Proposals being submitted should normally cover a three-year period.

### Proposal Review

The Scientific Advisory Board will review all proposals and will make funding recommendations to the Board of Directors. The Board of Directors will make all final decisions. All applicants will be notified of the decision on their proposal in early April.

## APPLICATION INSTRUCTIONS

Applicants should be a full-time regular faculty members with tenure or on tenure track.

The proposalCENTRAL website (<https://proposalcentral.altum.com>)

***Deadline to submit an application is 6:00 PM EST on the last business day of January.***

### Getting started in proposalCENTRAL

New users of proposalCENTRAL will need to create an account by using the "Create One Now" link and complete the registration process. After you register, complete your Professional Profile before starting an application.

Current registered users with proposalCENTRAL can login with your username and password

To start an application, select the "Grant Opportunities" tab. A list of applications will be displayed. From the filter drop down menu, select "Welch Foundation" and click "Go". The research grants application will appear. Click the "Apply Now" link to begin your application.

If you have difficulties registering, logging in, or creating your application, contact proposalCENTRAL Customer Support  
Toll-free U S and Canada 1-800-875-2562      Email [pcsupport@altum.com](mailto:pcsupport@altum.com)  
Normal Business Hours: 8 30am – 5 00pm Eastern Time (Monday thru Friday)

## Application Format

The following information is required to submit a complete application. Numbers correspond to the application sections that appear on the left side of the online application

1. *Title Page.* Enter the title of the research project. The title is limited to 150 characters (including spaces) Click yes or no if you are submitting the same application you have submitted before. If "Yes", list the date of previous submission in the corresponding field. Then in the Previous Proposal Number field, select either "Prior Proposal Not in proposalCENTRAL or one of the project titles shown in the drop down menu Input your current Welch grant number if you have one in the corresponding field. Finally, click "Yes" or "No" for the questions "Are you submitting your application from an institution located within the state of Texas".
2. *Download Templates & Instructions* The program guidelines and procedures document and any other required templates to be completed with this application will appear in this section. Click the "Download" button to the left of the description to save the file to your own computer. Any templates will need to be completed, converted to a PDF file and uploaded back into section 12.
3. *Enable Other Users to Access this Proposal* This section allows you to give other users access to your grant application at varying levels of permissions This is where you would add Sponsored Projects personnel or a Co-PI to give them the necessary access to your application.
4. *Applicant/PI* Complete the required information for the applicant. You can edit your Professional Profile from here to complete the required data
5. *Institution and Institution Officials.* Enter information for the required Signing Official for your institution
6. *Co-PI (if applicable).* Enter information regarding any Co-PIs on this project. If there aren't any Co-PIs, leave this section blank.
7. *Scientific Summary* Enter a brief summary of the proposed project. This summary is limited to 2,000 characters (including spaces) Any additional characters beyond this limit will be truncated once you move on to the next section To ensure you comply with the character limit, it is advised to draft your summary in Microsoft Word or similar program which can give you a character count
8. *Budget Period Detail.* Enter a fiscal year start date of June 1 and an ending fiscal year date of May 31 of each period. You must complete all three periods for the budget These are shown as Period 1, Period 2 and Period 3 and are separated in different windows. Uninvited proposals should complete a three-year budget for \$65,000 per year Invited proposals should submit for the annual grant amounts offered in their invitation letters. Funds may be utilized for direct expenditures in accordance with the following:
  - a. Fellowships and Scholarships - Postdoctoral fellowship appointments normally should be for 12 months but not less than three consecutive months Graduate fellowship appointments must cover a meaningful period that is not less than three consecutive months

- Undergraduate scholarship appointments must cover a meaningful period such as an academic year, semester, or a minimum of two (2) consecutive months if during the summer
- b Fringe Benefits - Amounts may be paid for individuals receiving fellowships or scholarships at rates approved by the institution
  - c Permanent Scientific Equipment - Items with at least one year useful life expectancy and costing a minimum of \$5,000.
  - d Expendable Scientific Items, Services and Equipment Maintenance - The grantee institution must maintain a record of actual expenditures, by category, for inclusion in the financial statement
  - e Publication Expenses - Expenses for publishing the results of research accomplished with the grant.
  - f Travel - Foreign or domestic travel expenses, including registration fees, by the principal investigator and current fellowship or scholarship recipients under the grant Travel must be relevant to the research Total expenditures may not exceed \$2,500 per grant year

Grant funds for direct expenditures may be utilized for any proper purpose beneficial to the research and not specifically excluded by the Foundation. Any expenditure made outside of these guidelines may result in a request for refund. The following are excluded as direct expenditures:

- a. General office supplies, equipment or expenses.
  - b. Building construction, alteration, renovation, rent or utilities.
  - c. Personnel expenses other than fellowships and scholarships as detailed above
  - d. Consultant fees and/or related expenditures
  - e. Student tuition or fees
  - f. Membership dues
  - g. Overhead
9. *Budget Summary.* A summary of the proposed budget appears here (fields are auto-populated per the data entered in Section 8).
10. *Active and Pending Research Support.* Any other active and applied for research support must be entered into your Professional Profile. If you have not done so at this point, you can click on "Edit Professional Profile" and add the information. Once entered into your profile, you can then go back to Section 10 and click "Add New Entry". If the data is already in your Professional Profile, you may simply click "Add New Entry" and select the applicable records. If you do not have any additional support, click "Add New Entry" and select "N/A".
11. *Publications.* List all of the papers published by the principal investigator in refereed journals within the last 24 months. You may also add up to five additional papers published in the last 25-60 months most pertinent to the proposed project. To add publications to this section, they must have been entered into your Professional Profile. You can click on "Edit Professional Profile" from this section to add publications not already in your profile. You can then go back to Section 11 and click "Add New Entry" to select any publications you wish to include in your proposal. If you do not have any publications, click "Add New Entry" and select "N/A".
12. *Application Attachments.* Prepare and upload the following documents into your application in PDF format
- a Project Description – Cover the background and the approach of the research proposal of the principal investigator. This section should be no more than five pages including any exhibits. References are not included in the five-page limitation. This detailed description must utilize a font size of 11 points or larger, line spacing must be at least 1.5 spaced but no more than five lines of text per vertical inch, and margins must be at least an inch in all directions.

- b. Principal Investigator's Biosketch – The biosketch should be limited to two pages. Reminder... A biosketch in PDF form must also be uploaded for a Co-PI
  - c. Tenure Letter – A letter from the grantee institution stating that the principal investigator is a full-time faculty member with tenure or is on tenure track
  - d. Signature Page(s) – This page will be automatically generated as part of your application. It will have to be printed, signed and uploaded by the appropriate Sponsored Projects or similar office at your institution.
13. *Validate* Validate the application on proposalCENTRAL. This is an essential step and checks for required data and attachments. You will not be able to submit your application if all the required information has not been provided. An application that has not been validated cannot be submitted.
14. *Signature Page(s)*. After successfully passing the validate check, you may click "Print Signature Pages and Attached PDF Files" to preview your application.
15. *Submit*. After you have clicked the "Submit" button, an email will be sent to you confirming your submission. At this point you can no longer edit any portion of your application without "unsubmitting" your application.

## POST AWARD GUIDELINES AND PROCEDURES

### Control of Research

The conduct and supervision of all research performed under a Foundation grant shall be within the exclusive control of the grantee institution. In accepting a grant, the grantee institution agrees to assume the entire responsibility for the research, for taking any necessary precautions for protection of persons and property, for proper operation and maintenance of all equipment in research activities and for safe disposal of any hazardous waste materials.

### Appointments

The purpose of postdoctoral and graduate fellowships and undergraduate scholarships is education and training in chemistry through research. All postdoctoral and graduate fellowships and undergraduate scholarships must have signed letters of appointment at the grantee institution. A recipient-signed appointment/acceptance letter must be retained on file at the grantee institution for examination when required. Joint appointments may be made with other external funding but at least 50 percent of the individual's external support must be from the Welch grant. Postdoctoral fellows may receive funding for a total of five years in a postdoctoral or equivalent position. This may be five consecutive years or a cumulative sum equal to five years. However, the postdoctoral fellow may not receive Welch Foundation support for more than three years.

There shall not be any employer-employee relationship between the Foundation and the principal investigators or recipients of appointments under Foundation grants.

### Attribution Rights

Any publication in scientific media shall include an acknowledgement referencing the Welch grant number and stating that the research was funded in part by a grant from The Welch Foundation. In addition, the background section of any patent application filed on an invention made with the assistance of a Welch Foundation grant shall include an acknowledgement referencing the Welch grant number and stating that the development of this invention was funded in part by The Welch Foundation.

### Grant Payments

Grant funds normally will be paid by the Foundation on a quarterly basis. Equal payments will be made on the first day of June, September, December, and March.

### **Absence of Principal Investigator**

If a principal investigator expects to be away from the grantee institution for an appreciable period of time, the Foundation must be informed in advance. The grant will become inactive unless the grantee institution submits a written request acceptable to the Foundation demonstrating that the grant will remain under the full control of the grantee institution.

### **Transfer of Principal Investigator**

If a principal investigator transfers from the grantee institution, normal closeout procedures should be carried out at the grantee institution with respect to the grant. A new grant proposal may be submitted by any Texas educational institution to which a principal investigator has transferred.

**Deliverables** (Year-End Reports) (must be submitted through proposalCentral by the last business day of July of each year).

1. **Progress Report** (proposalCentral Template). Report the progress of the research and list publications authored and submitted during the grant year (June 1 – May 31). Reminder emails will be sent prior to the deadline.
2. **Expenditures** (Financial Statement) (proposalCentral Template). Report expenditures during the most recent grant year (June 1 - May 31). All amounts should be reported on a cash basis. Reminder emails will be sent prior to the deadline.
3. **Carry Forward** (Amended Budget Request) (proposalCentral Template). Take amount of carry forward created by your expenditures and report the anticipated categories the carry forward will be moved to in the following grant period. An unexpended balance carry forward of more than \$30,000 must be accompanied by a letter from the grantee institution explaining the circumstances and the need.

**Note:** Input for both expenditures and carry forward are found in the "Budget" area of proposalCentral grant record.

### **Termination of Grants**

A grant may be cancelled for cause if progress toward the objective of the grant is not being made satisfactorily or if the grantee institution or the principal investigator is not in compliance with the terms and conditions of the award letter. Once the principal investigator or grantee institution is aware the grant will terminate, expenditures can no longer be made for permanent scientific equipment. In addition, any expenses for expendable scientific items must be for items that will be utilized during the remainder of the grant term.

The following shall be forwarded to the Foundation within 60 days after the termination of a grant for any reason:

1. Final Progress Report.
2. Final Financial Statement.

A refund of any unexpended balance will be requested after the Final Financial Statement has been approved.

### **Documentation**

As a condition of a grant, all documents in connection with a grant must be signed by persons *authorized by the institution to sign such documents*. In addition, all documents in connection with a grant may be signed in multiple counterparts and delivered by facsimile, email, U S mail or otherwise, each of which signatures shall be deemed an original.

PROJECT SUMMARY

APPLICANT NAME	DATE SUBMITTED
INSTITUTION	
DEPARTMENT	ACADEMIC RANK
TITLE OF PROJECT	

Do not include proprietary/confidential information

Scientific Summary



Proposal To: Welch Foundation    *Research Grants*

Title (Applicant):

**Active and Pending Research Support**

1.

Proposal To: Welch Foundation    *Research Grants*  
Title (Applicant):  
**Publications**

1.

Welch Foundation Research Grants <b>Grant Application</b>		Date Submitted  	
		Resubmission?	Prior App
TITLE OF PROJECT <i>(Titles exceeding 150 characters, including spaces and punctuation, will be truncated )</i>			
APPLICANT NAME			
POSITION TITLE		APPLICANT'S CURRENT INSTITUTION	
ACADEMIC RANK			
DIVISION		MAILING ADDRESS <i>(Street, city state, postal code, country)</i>	
DEPARTMENT			
E-MAIL ADDRESS			
Tel		Fax	
DATES OF PROPOSED PROJECT <i>(MM/DD/YYYY)</i> From		PROPOSED BUDGET Through	
Name Address        Tel		SIGNING OFFICIAL FOR Name Title Address      Tel	
Fax		Fax	
EIN		E-MAIL ADDRESS	
DUNS			
<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	
APPLICANT ASSURANCE I certify that the statements herein are true, complete and accurate to the best of my knowledge. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. I agree to accept responsibility for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as a result of this application.		SIGNATURE OF APPLICANT <i>(In ink "Per" signature not acceptable )</i>	
		DATE	
SIGNING OFFICIAL ASSURANCE I certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with the grantor's terms and conditions if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.		SIGNATURE OF SIGNING OFFICIAL <i>(In ink "Per" signature not acceptable )</i>	
		DATE	
ADDITIONAL SIGNATURE (follow guidelines for required signatures) I certify that the statements herein are true, complete and accurate to the best of my knowledge.		ADDITIONAL SIGNATURE (follow guidelines for required signatures) I certify that the statements herein are true, complete and accurate to the best of my knowledge.	
DATE		DATE	

APPLICANT:

PROPOSED BUDGET					
	Period 1	Period 2	Period 3		
Start Date (mm/dd/yyyy)					
End Date (mm/dd/yyyy)					
<b>Personnel Direct Costs</b>					
Requested Salary					
Fringe					
Subtotal Personnel Costs					
<b>Non - Personnel Direct Costs</b>					
Permanent Scientific Equipment					
Expendable Scientific Items, Services, and Equipment					
Publication Expenses					
Travel (not to exceed \$2,500 per grant year)					
Subtotal Non-Personnel Costs					
<b>TOTAL DIRECT COSTS</b>					
<b>TOTAL COSTS</b>					