



January Financial Reporting & Expenses

Succeeding this cover page are the STRS Ohio financial reports & expenses for the period ending Jan. 31, 2019. The unaudited reports that follow are:

- *Statement of Changes in Net Position* — This statement reflects fiscal year-to-date additions and deductions to the plans' net position. Items such as contributions, investment income and benefit payments are included in this financial report.
- *Actual Expenses vs. Budget* — This report reflects current month operating expenses and fiscal year-to-date expenses compared to fiscal year-to-date pro-rata budgeted amounts approved by the Board. In addition to operating expenses, a similar comparison is made of capital and State of Ohio expenses.
- *Expense Notes* — This report provides helpful explanations around larger or infrequent expenses.
- *Detailed Operating Expenses* — This report provides the specific companies or individuals paid by STRS Ohio for operating expenses during the month.

STRS Ohio's funds are held in trust for the sole benefit of the retirement system's members and their beneficiaries. Benefits paid by STRS Ohio are funded by contributions from Ohio's public educators and their employers and the investment returns generated by the assets in which those contributions are invested. STRS receives no general revenue funds — in other words, none of the State of Ohio's budget is expended to support STRS Ohio's benefits or operations.

STRS Ohio' operating expenses are paid solely out of investment returns — no member contributions or tax dollars are expended. STRS Ohio's operating budget is approved by the retirement system's board of trustees, who under Ohio law act as fiduciaries to the retirement system's members. Additionally, prior to approval by the STRS Ohio Board, the operating budget is, by law, reviewed by the Ohio Retirement Study Council, which is comprised of members of the Ohio House and Senate, three members appointed by the Governor, as well as the executive directors of Ohio's five public retirement systems.

Questions about the reports attached can be sent to ContactUs@strsoh.org.

State Teachers Retirement System of Ohio
 Statement of Changes in Net Position
 For the Period July 1, 2018 through January 31, 2019

	Defined Benefit Plans	Defined Contribution	Postemployment Healthcare	Totals
Additions:				
Contributions:				
Member	889,856,962	59,717,818		\$949,574,780
Employer	938,613,315	25,593,351		\$964,206,666
Transfers from Defined Contribution Plan	6,070,841	(6,070,841)		
Government reimbursements			56,759,563	56,759,563
Benefit recipient healthcare premiums			184,811,886	184,811,886
Other retirement systems	18,655,816			18,655,816
Total contributions	<u>1,853,196,934</u>	<u>79,240,328</u>	<u>241,571,449</u>	<u>2,174,008,711</u>
Net investment income (loss)	<u>681,269,836</u>	<u>(19,269,836)</u>	<u>38,000,000</u>	<u>700,000,000</u>
Total additions	<u>\$2,534,466,770</u>	<u>\$59,970,492</u>	<u>\$279,571,449</u>	<u>\$2,874,008,711</u>
Deductions:				
Service retirement	3,904,814,760			3,904,814,760
Disability retirement	118,169,368			118,169,368
Survivor benefits	73,412,583			73,412,583
Health care			304,827,452	304,827,452
Other	16,998,771			16,998,771
Total benefit payments	<u>4,113,395,482</u>		<u>304,827,452</u>	<u>4,418,222,934</u>
Refunds to members who have withdrawn	136,460,886	32,238,900		168,699,786
Administrative expenses	61,216,138		1,458,528	62,674,666
Total deductions	<u>\$4,311,072,506</u>	<u>\$32,238,900</u>	<u>\$306,285,980</u>	<u>\$4,649,597,386</u>
Net increase (decrease)	<u>(\$1,776,605,736)</u>	<u>\$27,731,592</u>	<u>(\$26,714,531)</u>	<u>(\$1,775,588,675)</u>
Net position held in trust for pension and postemployment healthcare benefits				
Beginning of year	<u>73,457,567,076</u>	<u>1,458,734,754</u>	<u>3,721,348,874</u>	<u>78,637,650,704</u>
End of period	<u>\$71,680,961,340</u>	<u>\$1,486,466,346</u>	<u>\$3,694,634,343</u>	<u>\$76,862,062,029</u>

STATE TEACHERS RETIREMENT SYSTEM
 Actual Expenses vs. Budget
 For the Month and Fiscal Year-to-Date Ended January 31, 2019

	January	December	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
Salaries and Wages	\$ 5,264,157	\$ 3,985,037	\$ 40,021,194	\$ 40,177,477	\$ 61,836,300	\$ 39,454,672
Fringe Benefits	1,484,108	1,228,234	10,207,213	10,508,259	17,400,200	10,022,217
Professional and Technical Services	837,185	540,035	5,458,511	6,297,402	11,093,100	5,746,735
Repairs and Maintenance	473,771	434,045	3,160,535	3,262,063	5,669,800	2,984,573
Travel and Vehicles	29,233	35,861	297,649	331,691	715,000	295,780
Communications	122,357	228,843	1,325,519	1,222,537	1,954,200	1,159,056
Utilities	109,579	68,156	601,707	420,414	1,018,000	429,219
Supplies and Materials	54,209	60,022	595,024	526,065	907,000	514,737
Other Expenses	44,668	41,675	780,409	859,362	1,153,000	751,227
Total Operating Expenses	\$ 8,419,267	\$ 6,621,908	\$ 62,447,761	\$ 63,605,271	\$ 101,746,600	\$ 61,358,216
Capital Budget	\$ 354,809	\$ 98,423	\$ 930,011	\$ 930,011	\$ 4,195,800	\$ 1,582,071
State of Ohio Expenses	\$ 80,484	\$ 354	\$ 226,905	\$ 226,905	\$ 363,500	\$ 186,864

Staffing Information:	January	December	November
Budgeted FTE Associates	538	538	538
Full Time Equivalent Associates	526	525	525
Open FTE Positions	11	8	8

_____ Ms. Hayden _____ moved, seconded by _____ Ms. Correthers _____, that the report be accepted and the expenditures for the month ending January 31, 2019 in the total amount of \$8,854,560 be approved.

STATE TEACHERS RETIREMENT SYSTEM

Actual Expenses vs. Budget

For the Month and Fiscal Year-to-Date Ended January 31, 2019

	January	December	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
SALARIES AND WAGES						
Salaries and Wages	\$ 3,921,716	\$ 3,930,625	\$ 29,441,145	\$ 29,295,404	\$ 50,778,700	\$ 28,717,654
Other Compensation	2,738	1,932	15,607	14,157	27,100	10,870
Incentive Compensation	0	0	8,886,078	9,200,000	9,200,000	9,222,061
Unused Vacation and Sick Leave	1,328,212	38,692	1,594,051	1,594,051	1,690,000	1,407,354
Overtime	9,041	11,438	60,388	49,940	92,500	56,933
Service Awards	2,450	2,350	23,925	23,925	48,000	39,800
Total Salaries and Wages	\$ 5,264,157	\$ 3,985,037	\$ 40,021,194	\$ 40,177,477	\$ 61,836,300	\$ 39,454,672
FRINGE BENEFITS						
OPERS Employer Cost	\$ 701,317	\$ 483,341	\$ 4,930,375	\$ 5,076,520	\$ 8,100,600	\$ 4,906,176
Medical/Hospitalization Insurance	601,384	585,530	4,097,594	4,200,000	7,200,000	3,851,315
Medicare	75,144	56,696	570,822	524,712	909,500	563,835
Dental Insurance	49,191	49,465	346,830	359,397	615,100	351,523
Educational Assistance	18,050	19,513	78,130	84,667	120,000	77,411
Workers' Compensation	10,108	7,799	(4,926)	83,654	145,000	86,168
Life Insurance	22,920	19,885	142,037	115,899	208,000	121,823
Disability Insurance	8,466	7,955	59,232	46,588	84,000	49,325
Wellness	(2,472)	(1,950)	(15,897)	0	0	(4,566)
Unemployment Compensation	0	0	3,016	16,823	18,000	19,207
Total Fringe Benefits	\$ 1,484,108	\$ 1,228,234	\$ 10,207,213	\$ 10,508,259	\$ 17,400,200	\$ 10,022,217
PROFESSIONAL AND TECHNICAL SERVICES						
Actuary	\$ 42,229	\$ 29,785	\$ 158,986	\$ 141,847	\$ 265,000	\$ 117,391
Audit	44,946	2,428	105,574	82,065	205,600	127,231
Banking Expense	511	2,576	19,349	75,657	130,000	77,303
Board Election Processing	0	0	0	0	65,000	0
Contract Services	4,950	109,587	217,371	250,838	377,900	188,132
Custodial Banking Fees	437,012	6,277	988,432	1,225,000	2,400,000	1,269,645
Data Management and Analytics	0	0	48,375	122,500	245,000	66,750
Disaster Recovery	1,478	958	6,637	7,138	14,500	6,678
Employment Verification	413	645	4,056	2,775	4,000	3,237
Health Care Consultant	0	0	6,250	114,000	228,000	25,000
Insurance Consultant	0	0	32,000	48,008	95,500	46,500
Investigative Services	589	570	3,924	4,487	19,300	3,610
Investment Consultant	20,833	134,820	352,974	355,000	710,000	346,611
Investment Research Services	214,307	182,781	2,110,372	1,973,347	2,600,000	1,848,882
Legal Fees	1,215	7,721	(57,254)	303,467	360,000	279,040
Medical Examinations	32,149	21,175	169,846	243,060	433,000	214,820
Other Consulting Services	21,771	31,756	253,125	189,085	623,300	178,617
Quotation and Analytic Services	9,161	4,374	972,461	1,111,500	2,223,000	866,967
Real Estate Contract Services	0	0	27,794	27,500	55,000	31,219
Recruitment Fees	3,000	0	10,325	8,461	19,000	17,819
Temporary Employment Services	2,621	4,582	27,914	11,667	20,000	31,283
Total Professional/Technical Services	\$ 837,185	\$ 540,035	\$ 5,458,511	\$ 6,297,402	\$ 11,093,100	\$ 5,746,735

January Expenses vs. Budget

Page 2

	January	December	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
REPAIRS AND MAINTENANCE						
Building Maintenance and Equipment	\$ 57,485	\$ 39,672	\$ 379,728	\$ 413,715	\$ 722,000	\$ 393,816
Copiers	6,917	6,388	52,439	54,264	110,000	54,014
Data Processing Equipment	303,693	370,988	2,417,045	2,492,467	4,272,800	2,287,430
Elevators	0	1,645	3,707	54,250	93,000	(8,981)
Mail Center Equipment	260	1,500	8,151	8,094	21,500	5,850
Property Tax and Leases	89,625	9,056	144,062	128,046	240,000	144,128
Safety and Security Equipment	13,252	2,623	140,143	100,468	188,500	95,428
Trash Removal	2,539	2,173	15,260	10,759	22,000	12,888
Total Repairs and Maintenance	\$ 473,771	\$ 434,045	\$ 3,160,535	\$ 3,262,063	\$ 5,669,800	\$ 2,984,573
TRAVEL AND VEHICLES						
Gasoline	\$ 131	\$ 671	\$ 4,487	\$ 4,133	\$ 7,600	\$ 4,161
Staff and Board Travel	28,683	33,791	287,449	323,071	694,400	289,162
Vehicle Maintenance	419	1,399	5,713	4,487	13,000	2,457
Total Travel and Vehicles	\$ 29,233	\$ 35,861	\$ 297,649	\$ 331,691	\$ 715,000	\$ 295,780
COMMUNICATIONS						
Courier Services	\$ 2,324	\$ 1,416	\$ 11,762	\$ 14,764	\$ 27,200	\$ 12,278
Outsourced Distribution	(6,930)	12,021	64,393	83,080	108,000	66,278
Photography / Media	0	0	0	0	5,000	0
Postage	105,629	154,506	872,511	749,083	1,160,000	728,437
Printing	(4,333)	34,738	200,681	223,005	373,000	190,265
Telecommunications	25,667	26,162	176,172	152,606	281,000	161,798
Total Communications	\$ 122,357	\$ 228,843	\$ 1,325,519	\$ 1,222,537	\$ 1,954,200	\$ 1,159,056
UTILITIES						
Electricity	\$ 80,030	\$ 50,974	\$ 490,999	\$ 344,759	\$ 800,000	\$ 352,932
Natural Gas	28,575	13,567	79,233	32,688	120,000	40,753
Oil	0	0	0	0	18,000	0
Water	974	3,615	31,475	42,967	80,000	35,534
Total Utilities	\$ 109,579	\$ 68,156	\$ 601,707	\$ 420,414	\$ 1,018,000	\$ 429,219
SUPPLIES AND MATERIALS						
Equipment Supplies	\$ 32,805	\$ 46,335	\$ 443,205	\$ 382,231	\$ 596,800	\$ 375,354
Food Service Supplies	10,066	3,906	34,833	24,412	49,000	30,790
Office Supplies	4,166	4,474	33,915	30,412	52,000	28,157
Personal Computer Software	416	399	24,570	27,130	68,300	30,001
Publications/Subscriptions	1,825	2,856	37,438	38,145	100,900	27,269
Uniforms	4,931	2,052	21,063	23,736	40,000	23,166
Total Supplies and Materials	\$ 54,209	\$ 60,022	\$ 595,024	\$ 526,065	\$ 907,000	\$ 514,737

January Expenses vs. Budget
Page 3

	January	December	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
OTHER EXPENSES						
Board Employer Reimbursement	\$ 0	\$ 0	\$ 0	\$ 0	\$ 3,000	\$ 0
Conferences and Seminars	7,795	2,954	30,069	52,030	101,200	43,297
Dues and Licenses	26,174	10,034	79,871	82,011	161,100	78,790
Equipment Rental	0	0	0	0	0	0
Insurance	0	0	544,035	575,000	575,000	501,814
Member/Employer Education Programs	3,089	9,525	57,484	62,047	138,200	48,717
Miscellaneous Expense	1,478	1,628	8,037	10,780	22,800	9,117
Other Board Expense	0	431	1,766	1,625	3,800	1,528
Other Staff Expense	862	6,307	9,112	13,887	19,900	10,305
Training	5,270	10,796	50,035	61,982	128,000	57,659
Total Other Expenses	\$ 44,668	\$ 41,675	\$ 780,409	\$ 859,362	\$ 1,153,000	\$ 751,227
Total Operating Expenses	\$ 8,419,267	\$ 6,621,908	\$ 62,447,761	\$ 63,605,271	\$ 101,746,600	\$ 61,358,216
	January	December	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
Building Improvements	\$ 7,160	\$ 18,128	\$ 181,950	\$ 181,950	\$ 2,300,000	\$ 35,920
Furniture & Fixtures	0	0	0	0	0	0
Audio Visual	0	0	0	0	0	0
Information Processing	0	0	258,120	258,120	856,400	363,340
Maintenance	3,563	7,297	67,679	67,679	194,400	0
Miscellaneous	0	0	0	0	0	0
Office	10,355	0	15,533	15,533	20,000	20,356
Telecommunications	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0
Computer Software	333,731	72,998	406,729	406,729	825,000	1,162,455
Total Capital Budget	\$ 354,809	\$ 98,423	\$ 930,011	\$ 930,011	\$ 4,195,800	\$ 1,582,071
Total State of Ohio Expenses	\$ 80,484	\$ 354	\$ 226,905	\$ 226,905	\$ 363,500	\$ 186,864

January 2019 Expense Notes

General Comments

Actual fiscal year-to-date operating expenses total \$62.4 million, approximately \$1.2 million lower than expected. Incentive Compensation is lower than the budgeted amount by approximately \$300,000.

Salaries and Fringe Benefits

Unused Vacation and Sick Leave costs include the annual vacation and sick leave payments for associates. OPERS Employer Cost and Medicare increased in January as a result of the annual payment. Educational Assistance was provided for six associates in January.

Professional and Technical Services

Actuary includes ad hoc actuary services and monthly pension and health care valuation retainer fees. Audit includes the annual financial audit, GASB 68 and 75 audits, and health care audit costs. One month of domestic custody fees and one quarter of global custody, collateral and performance charges are included in Custodial Banking Fees. Monthly alternative investment consultant fees are included in Investment Consultant. Investment Research Services includes quarterly fundamental research services, semi-annual fees for credit analysis and annual fees for economic database charges. Medical Examinations includes two months of the medical review board chair services. Other Consulting Services includes the first payment of investment performance verification services and external quantitative programming costs.

Repairs and Maintenance

Building Maintenance and Equipment includes building automation system, boiler and computer room HVAC maintenance. Data Processing Equipment includes quarterly STaRS maintenance and annual renewal of network connectivity hardware support. Property Tax and Leases includes half-year real estate taxes.

Communications

Outsourced Distribution and Printing reflect a credit balance for dental and vision plan expenses reclassified to the health care fund. Postage includes costs associated with mailing the defined contribution annual investment report, federal 1099-R and 1095-B tax forms.

Utilities

Electricity, Natural Gas and Water are for usage through December.

Supplies and Materials

Equipment Supplies include letter acknowledgement forms, replacement desktop computers, iPads and ice melt.

Other Expenses

Registration fees for the National Association of State Retirement Administrators and an IT procurement conference are included in Conferences and Seminars. Dues and Licenses include annual membership fees for NCREIF, Government Finance Officers Association, National Council on Teacher Retirement and National Institute on Retirement Security. Technology training costs are included in Training.

State of Ohio Expenses

The third quarterly payment for the Ohio Retirement Study Council was paid in January.

Capital Budget

Capital items for January include two replacement copiers, security camera and freight elevator upgrades, HVAC controller boxes, and 5 IT change orders for STaRS.

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u> <u>VENDOR</u>	<u>AMOUNT</u>
Salaries and Wages		
Salaries & Wages	STRS OHIO	5,255,116
	Total	5,255,116
Overtime	STRS OHIO	9,041
	Total	9,041
	Total Salaries and Wages	5,264,157
Fringe Benefits		
OPERS Employer Cost	STRS OHIO	701,317
	Total	701,317
Medical/Hospitalization Insurance	ANDREA L GARNER	200
	ANDREW VICEN	200
	BRENDA L TRITTSCHUH	400
	BRET BORDER	400
	CAROL N CLARK	200
	CASSANDRA REESE	400
	DAN J ROBERTS	400
	DEVON W MAESTRI	400
	DORENE M BROWNING	200
	ERIN RITTER	200
	JAMES A PETERMAN	200
	JAMES H RITTER	400
	JAY W ALSPAUGH	400
	JEFFREY L LIESER	400
	JENNIFER L PEERY	400
	JOHN D MORROW	400
	JULIA A VISKANTA	400
	KASEY HORAN	200
	KATHY BOETTCHER	200
	KATHY K HOFFMANNBECK	200
	KEIRRA KARSHNER	400
	KEN C CHEE	400
	KEVIN D DEVRIES	400
	LEO M WILHELM	400
	LINDA M HORNE	400
	LOURDES R DUDANEY	400
	MABEL CHOW BROWN	400
	MARIN SOEUNG	400
	MARK MAXWELL	400
	MATTHEW E WORLEY	400
	MEDICAL CLAIMS	600,000
	MEI ZHANG	400
	MICHAEL A TAYLOR	400
	MICHAEL C BOBER	400
	MICHAEL MILLER	400
	MICHAEL SCHANTZ	400
	MISC. RECEIPTS	(3,972)
	NATHAN DRAKE	200
	NEAL J HUSTON	400
	PAUL M SNYDER	200
	RICHARD A HARMAN	400
	RICHARD E FISCHBACH	400
	RONALD J MCKILLIP	200
	RYAN W COLLINS	400
	SHELBY OSBORNE	400
	STACEY WIDEMAN	200
	STRS OHIO	(91,164)
	SUSAN D YOUNG	400
	TAMLA D COLE	200
	TERENCE M HERBST	400
	THOMAS C CHAEL	400
	THOMAS S COUNTS	400
	UNITED HEALTHCARE INSURANCE CO	77,920
	VENKATA D KANTAMNENI	400
	VINAY CHERUKUPALLY	400

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u> <u>VENDOR</u>	<u>AMOUNT</u>
	WILLIAM A SHURMAN	400
	YI ZHANG	200
	YING SHI	400
	Total	601,384
Medicare	STRS OHIO	75,144
	Total	75,144
Dental Insurance	DELTA DENTAL	49,347
	MISC. RECEIPTS	(156)
	Total	49,191
Educational Assistance	COLUMBUS STATE COMMUNITY COLLEGE	917
	FRANKLIN UNIVERSITY	13,813
	SAMUEL CHANDLER	1,400
	SOUTHERN NEW HAMPSHIRE UNIVERSITY	1,920
	Total	18,050
Workers' Compensation	STRS OHIO	10,108
	Total	10,108
Life Insurance	LINCOLN NATIONAL LIFE INSURANCE COMPANY	22,920
	Total	22,920
Disability Insurance	LINCOLN NATIONAL LIFE INSURANCE COMPANY	8,466
	Total	8,466
Wellness	FITNESS SOLUTIONS LTD	251
	MISC. RECEIPTS	(423)
	OHIOHEALTH/WORK HEALTH	160
	STRS OHIO	(2,460)
	Total	(2,472)
	Total Fringe Benefits	1,484,108
Professional and Technical Services		
Actuary	CHEIRON INC	42,229
	Total	42,229
Audit	CLAIM TECHNOLOGIES INC	10,895
	CLIFTONLARSONALLEN LLP	33,303
	TREASURER STATE OF OHIO	748
	Total	44,946
Banking Expense	FIFTH THIRD BANK	511
	Total	511
Contract Services	ESPO TECHNOLOGIES	4,200
	SILKROAD TECHNOLOGY INC	750
	Total	4,950
Custodial Banking Fees	FIFTH THIRD BANK	1,844
	NORTHERN TRUST	435,168
	Total	437,012
Disaster Recovery	FIFTH THIRD BANK-CORP CARD	50
	FIREPROOF RECORDS CENTER	783
	RECOVERY POINT SYSTEMS	645
	Total	1,478
Employment Verification	OHIOHEALTH/WORK HEALTH	333
	SCREENPOINTE INC	80
	Total	413
Investigative Services	LEXISNEXIS RISK SOLUTIONS	589
	Total	589
Investment Consultant	CLIFFWATER LLC	20,833
	Total	20,833

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u> <u>VENDOR</u>	<u>AMOUNT</u>
Investment Research Services	ARBOR RESEARCH & TRADING LLC	3,750
	CREDITNTELL	24,000
	DTCC ITP LLC	800
	FTSE INTERNATIONAL LTD	2,676
	HAYER ANALYTICS	69,560
	ITG PLATFORMS INC	3,056
	THOMSON REUTERS(MARKETS) LLC	101,536
	TRADEWEB LLC	1,600
	WILSHIRE ASSOCIATES INC	7,329
	Total	214,307
Legal Fees	CALFEE HALTER AND GRISWOLD LLP	1,102
	JONES DAY	113
	Total	1,215
Medical Examinations	ALBERT J KOLIBASH JR MD	180
	CLAIRE V WOLFE MD	820
	DISABILITY & IMPAIRMENT EVALUATIONS, INC	3,350
	DONALD C MANN MD INC	850
	EARL N METZ MD	100
	INDEPENDENT EVALUATORS INC	1,250
	JAMES N ALLEN, MD	1,360
	JAMES R. HAWKINS, M.D.	600
	JEFFERY C HUTZLER MD	1,360
	KIDNEY SPECIALISTS INC	250
	MARC COOPERMAN MD	100
	MARTIN J GOTTESMAN MD	14,593
	MITCHELL E NAHRA MD	600
	OHIO ENT	245
	OHIO GASTROENTEROLOGY GROUP INC	856
	ORTHOPEDIC ONE	1,850
	OSU INTERNAL MEDICINE, LLC	470
	QUALITY EVALUATION INC	675
	STEIMAN NEUROLOGY GROUP INC	1,150
	STEPHEN D HEIS MD & ASSOCIATES	950
STEPHEN F PARISER, MD	540	
Total	32,149	
Other Consulting Services	ACA PERFORMANCE SERVICES LLC	5,450
	FIFTH THIRD BANK	7,281
	FUSION TECHNOLOGIES-EAST LLC	9,040
	Total	21,771
Quotation and Analytic Service	BLOOMBERG FINANCE LP	5,625
	NYSE MARKET INC	2,602
	OPTIONS PRICE REPORTING AUTHORITY LLC	504
	TSX INC	430
Total	9,161	
Recruitment Fees	INDEED INC	3,000
Total	3,000	
Temporary Employment Services	OFFICE TEAM	877
	US PROTECTION SERVICE	1,744
	Total	2,621
	Total Professional and Technical Services	837,185
Repairs and Maintenance		
Building Maintenance and Equipment	ABCO FIRE PROTECTION INC	304
	AMBIUS LLC 05	1,573
	BATTERIES PLUS	55
	BDI (53)	90
	CONSOLIDATED ELECT DIST	678
	FIBERCARE	4,390
	FIFTH THIRD BANK-CORP CARD	144
	GLOBE WINDOW CLEANING INC	3,323
	GRAINGER INC	969
	I SUPPLY COMPANY	5,726

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u>	<u>AMOUNT</u>
	<u>VENDOR</u>	
	JOHNSON CONTROLS INC	21,886
	LOMBARDI WATER MANAGEMENT INC	1,176
	LOWES BUSINESS ACCOUNT	57
	MCMASTER-CARR SUPPLY COMPANY	70
	MH EQUIPMENT COMPANY	103
	PM SERVICES	68
	PRAXAIR DISTRIBUTION INC	186
	SPEER MECHANICAL	11,440
	STEFFENS SHULTZ INC	409
	SUPER LAUNDRY EQUIPMENT CORPORATION	454
	TERMINIX	399
	VERTIV CORPORATION	983
	WESCO DISTRIBUTION, INC.	589
	WESTWATER SUPPLY CO	2,413
	Total	57,485
Copiers	BLUE TECHNOLOGIES COLUMBUS INC	13
	CANON FINANCIAL SERVICES INC	3,804
	GORDON FLESCH CO INC	2,762
	MT BUSINESS TECHNOLOGIES INC	338
	Total	6,917
Data Processing Equipment	ARROW GLOBAL ASSET DISPOSITION INC	1,500
	BLOOMBERG FINANCE LP	1,000
	CDW GOVERNMENT INC	1,050
	FIFTH THIRD BANK-CORP CARD	512
	INFORMATION MANAGEMENT SERVICES	4,485
	IOVATION INC	3,132
	MNJ TECHNOLOGIES DIRECT INC	57,720
	SAP PUBLIC SERVICES INC	14,588
	SYSTEMTOOLS SOFTWARE INC	1,041
	VITECH SYSTEMS GROUP INC	213,617
	W BRADLEY ELECTRIC INC/ WBE NETWORK SYS	1,459
	XEROX CORPORATION	3,589
	Total	303,693
Mail Center Equipment	NEOPOST USA INC	260
	Total	260
Property Tax and Leases	FRANKLIN COUNTY TREASURER	80,568
	HOLLINGSWORTH CAPITAL PARTNERS COLS LLC	9,057
	Total	89,625
Safety & Security Equipment	CAMTRONICS COMMUNICATION COMPANY	6,300
	ELECTRONIC SECURITY SERVICES INC	1,120
	HARD FIRE SUPPRESSION SYSTEMS	5,832
	Total	13,252
Trash Removal	MISC. RECEIPTS	(36)
	REPUBLIC SERVICES #046	404
	WASTE MANAGEMENT INC	2,171
	Total	2,539
	Total Repairs and Maintenance	473,771
Travel and Vehicles		
Gasoline	FIFTH THIRD BANK-CORP CARD	131
	Total	131
Staff and Board Travel	ALEX GRUBER	79
	AMERICAN EXPRESS COMPANY	17,690
	MISC RECEIPT	(297)
	BRIAN R ENGSTROM	23
	COMPASS GROUP	14
	CRAIG L BESSELMAN	2,276
	DANIEL P GRIFFIN	1,926
	DRURY INN & SUITES	714
	ERIC NEWBERG	1,017
	GARRETT WOFFORD	28
	JACOB R CLARK	85

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u>	<u>AMOUNT</u>
	<u>VENDOR</u>	
	JASON T JARVIS	521
	JASON W BAKER	39
	JEFFREY A GILDER	514
	JEFFREY L LIESER	200
	JOHN A BUCH	7
	JOSHUA JOHNSTON	44
	JPMORGAN CHASE	272
	KELLEY S MCCHRISTY	222
	MARCY H YEAMANS	1,163
	MARK E FILLINGER	866
	NIK TAN	547
	STANTON WEST	126
	STEPHEN H HUBER	23
	STEPHEN M REYNARD	85
	STEVEN J LUETTGEN	13
	SUNIL S DEVADIGA	287
	TAMLA D COLE	199
	Total	28,683
Vehicle Maintenance	BYERS CHRYSLER, LLC	138
	CENTURY EQUIPMENT INC.	65
	JAMES L ZAVODNY	16
	TOWLIFT INC	200
	Total	419
	Total Travel and Vehicles	29,233
Communications		
Courier Services	FEDEX	36
	RAINBOW EXPRESS INC	1,339
	UNITED PARCEL SERVICE	949
	Total	2,324
Outsourced Distribution	BAESMAN GROUP INC	(6,930)
	Total	(6,930)
Postage	FIFTH THIRD BANK-CORP CARD	15
	LORTON DATA INC.	529
	MAIL SORT LTD	5,000
	PITNEY BOWES PRESORT SERVICES, INC	8
	RESERVE ACCOUNT	100,000
	THE OLD TRAIL PRINTING CO INC	77
	Total	105,629
Printing	BAESMAN GROUP INC	4,058
	THE OLD TRAIL PRINTING CO INC	1,621
	VERITIV OPERATING COMPANY	(10,012)
	Total	(4,333)
Telecommunications	AT&T	100
	FRONTIER	86
	T-MOBILE	75
	TIME WARNER CABLE	345
	TREASURER STATE OF OHIO	319
	VERIZON WIRELESS	3,643
	WEST UNIFIED COMMUNICATIONS SERVICES INC	69
	WOW BUSINESS	1,780
	XO COMMUNICATIONS	19,250
	Total	25,667
	Total Communications	122,357
Utilities		
Electricity	AMERICAN ELECTRIC POWER	26,000
	CITY OF WESTERVILLE	2,386
	CONSTELLATION NEW ENERGY INC	51,644
	Total	80,030

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>VENDOR</u>	<u>AMOUNT</u>
Natural Gas	COLUMBIA GAS OF OHIO	5,678
	CONSTELLATION ENERGY SVCS - NATURAL GAS	22,897
	Total	28,575
Water	COLUMBUS CITY TREASURER	974
	Total	974
	Total Utilities	109,579
Supplies and Materials		
Equipment Supplies	APPLE COMPUTER, INC.	2,036
	B & H PHOTO VIDEO	346
	BROWN SUPPLY CO	1,427
	CDW GOVERNMENT INC	710
	CINTAS CORPORATION	626
	DIGICERT INC	1,250
	FASTSIGNS	35
	FIFTH THIRD BANK-CORP CARD	1,222
	GORDON FOOD SERVICE	3,764
	I SUPPLY COMPANY	561
	IT SAVVY	4,972
	KINZUA ENVIRONMENTAL INC	454
	KROGER-COLUMBUS CUSTOMER CHARGES	14
	MISC. RECEIPTS	(748)
	MNJ TECHNOLOGIES DIRECT INC	6,644
	PM PROFESSIONAL SERVICES	1,104
	RR DONNELLEY AND SONS COMPANY	5,320
	SAM'S CLUB	69
	SPIRAL BINDING COMPANY INC	509
	THE MILLCRAFT PAPER COMPANY	396
VERITIV OPERATING COMPANY	2,094	
	Total	32,805
Food Service Supplies	AVI FOOD SYSTEMS INC	1,089
	COCA-COLA BOTTLING CO CONSOLIDATED	836
	FIFTH THIRD BANK-CORP CARD	58
	FIRSTCHOICE	111
	GORDON FOOD SERVICE	21,250
	KROGER-COLUMBUS CUSTOMER CHARGES	481
	MISC. RECEIPTS	(8,532)
	READY REFRESH	53
	SAM'S CLUB	281
	SCHNEIDER'S BAKERY INC	412
	STRS OHIO	(6,965)
	TREASURER STATE OF OHIO	992
		Total
Office Supplies	CAPITOL OFFICE SUPPLY	511
	CENTRAL OHIO COPIER SUPPLY	46
	CHARNSTROM	77
	FIFTH THIRD BANK-CORP CARD	137
	GRAINGER INC	165
	INDEPENDENT STATIONERS INC	1,027
	LUDLOW SALES & SERVICE	61
	OFFICE DEPOT INC	116
	PITNEY BOWES INC	326
	STAPLES BUSINESS ADVANTAGE	1,700
	Total	4,166
Personal Computer Software	DELL MARKETING LP	416
	Total	416
Publications/Subscriptions	DIRECTV	193
	FIFTH THIRD BANK-CORP CARD	393
	MATTHEW BENDER & CO INC	227
	PROGRESSIVE BUSINESS PUBLICATIONS	299
	RELX INC DBA LEXISNEXIS	339
	THE COLUMBUS DISPATCH	374
	Total	1,825

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u> <u>VENDOR</u>	<u>AMOUNT</u>
Uniforms	CINTAS CORPORATION	3,627
	ECONOMY	609
	UNIFIRST CORPORATION	695
	Total	4,931
	Total Supplies and Materials	54,209
Other Expenses		
Conferences and Seminars	AMERICAN PAYROLL INSTITUTE INC	85
	ARMA GREATER COLUMBUS OHIO CHAPTER	40
	ASQ COLUMBUS SECTION 801	357
	CENTRAL OHIO POSTAL CUSTOMER COUNCIL	50
	FIFTH THIRD BANK-CORP CARD	190
	HUMAN RESOURCES ASSOCIATION-CENTRAL OH	300
	JAMIE LI	90
	LYNN A HOOVER	379
	NATL ASSOC OF PUBLIC PENSION ATTORNEYS	485
	NATL ASSOC OF STATE RETIREMENT ADMIN	1,330
	PAUL M SNYDER	659
	PRISM	1,300
	SUSAN D YOUNG	50
	THOMAS S COUNTS	979
	WORLDWIDE BUSINESS RESEARCH USA	1,501
	Total	7,795
Dues and Licenses	AMERICAN PAYROLL INSTITUTE INC	269
	ARMA INTERNATIONAL	160
	ASSN OF PUBLIC PENSION FUND AUDITORS	350
	ASSOCIATION FOR FACILITIES ENGINEERS	598
	ASSOCIATION OF ENERGY ENGINEERS	500
	BOMI INTERNATIONAL	75
	CENTRAL OH ORG OF PUBLIC PURCHASERS	40
	DEBRA L HULAND	1,000
	GARY FOUST	400
	GOVERNMENT FINANCE OFFICERS ASSN	1,655
	INTERNATIONAL FOUNDATION	1,050
	INTERNATIONAL INSTITUTE OF BUS ANALYSIS	220
	MEREDITH H WAHLERS	184
	NARASIMHA R VADREVVU	1,000
	NATIONAL COUNCIL ON TEACHER RETIREMENT	5,030
	NATL INSTITUTE ON RETIREMENT SECURITY	9,400
	NCREIF	2,500
	PAUL M SNYDER	183
	PENSION REAL ESTATE ASSOCIATION	330
	PRISM	300
PUBLIC PENSION FINANCIAL FORUM	750	
SAM'S CLUB	180	
Total	26,174	
Member Education Programs	COURTYARD MARRIOTT	1,050
	DEFIANCE COLLEGE	50
	FINDLAY INN & CONFERENCE CENTER	476
	PRESTIGE AV & CREATIVE SERVICES	96
	SHARONVILLE CONVENTION CENTER	500
	THE MANDALAY	917
Total	3,089	
Miscellaneous	CAPITOL SQUARE REVIEW & ADVISORY BOARD	400
	FIFTH THIRD BANK-CORP CARD	140
	FIREPROOF RECORDS CENTER	680
	INFOSTORE LLC	63
	MAPLE LEE FLOWERS	180
	OHIO SECRETARY OF STATE'S OFFICE	15
	Total	1,478

STATE TEACHERS RETIREMENT SYSTEM

Detailed Operating Expenses
For the Month Ended January 31, 2019

<u>ACCOUNT</u>	<u>Vendor</u>	<u>AMOUNT</u>
Other Staff Expense	<u>VENDOR</u>	
	DONATO'S PIZZERIA LLC	277
	FIFTH THIRD BANK-CORP CARD	157
	JENNIFER MONTENARO	250
	MATTHEW C HOLMAN	95
	ROBERT KOCI	19
	STRS OHIO	(802)
	SUZAN J WALTERS	325
	WENDIE M BALLARD	541
	Total	862
Training	FIFTH THIRD BANK-CORP CARD	275
	SECUREWORKS INC	3,500
	TRICENTIS USA CORP	300
	WORKFRONT INC	1,195
		Total
	Total Other Expenses	44,668
<hr/> Total Operating Expenses <hr/>		8,419,267
State of Ohio Expenses	STATE OF OHIO ATTORNEY GENERALS OFFICE	15,000
	OHIO RETIREMENT STUDY COUNCIL	65,296
	TREASURER STATE OF OHIO	187
	Total State of Ohio Expenses	80,484