Budget Officer:

Mr. Don Zant / dzant@budgetplan.msstate.edu

MS State Univ - Center for Advanced Vehicular Systems Post Office Box 5405, MS State, MS 39762 Dr. Mark E. Keenum AGENCY ADDRESS CHIEF EXECUTIVE OFFICER Actual Expenses Estimated Expenses Requested For Requested Over/(Under) Estimated June 30,2021 June 30,2022 June 30,2023 I. A. PERSONAL SERVICES AMOUNT PERCENT 1. Salaries, Wages & Fringe Benefits (Base) 3,048,823 2,595,248 2,812,086 a. Additional Compensation b. Proposed Vacancy Rate (Dollar Amount) c. Per Diem Total Salaries, Wages & Fringe Benefits 3 048 823 2 595 248 2,812,086 216,838 8 36% 2. Travel a. Travel & Subsistence (In-State) 2.139 32,000 32,000 712 b. Travel & Subsistence (Out-Of-State) c. Travel & Subsistence (Out-Of-Country) Total Travel 32,000 2.851 32,000 B. CONTRACTUAL SERVICE S (Schedule B) 6,072 a. Tuition, Rewards & Awards 1.740 6,072 b. Communications, Transportation & Utilities 5,385 16,000 16,000 2.020 c. Public Information d. Rents 10,476 21,000 21,000 120,522 64,500 64,500 e. Repairs & Service f. Fees, Professional & Other Services 6,838 2,500 2,500 g. Other Contractual Services 174,686 628,000 628,000 h. Data Processing 68,187 63,520 63,520 i. Other 389,854 801,592 801,592 **Total Contractual Services** C. COMMODITIES (Schedule C) a. Maintenance & Construction Materials & Supplies b. Printing & Office Supplies & Materials 86,932 109,700 109,700 32,500 c. Equipment, Repair Parts, Supplies & Accessories 31,732 32,500 d. Professional & Scientific Supplies & Materials 155,795 74,900 74,900 e. Other Supplies & Materials 122,564 72,600 72,600 **Total Commodities** 289,700 289,700 397,023 D. CAPITAL OUTLAY 1. Total Other Than Equipment (Schedule D-1) 2. Equipment (Schedule D-2) b. Road Machinery, Farm & Other Working Equipment c. Office Machines, Furniture, Fixtures & Equipment d. IS Equipment (Data Processing & Telecommunications) e. Equipment - Lease Purchase 27,691 f. Other Equipment **Total Equipment (Schedule D-2)** 27,691 3. Vehicles (Schedule D-3) 4. Wireless Comm. Devices (Schedule D-4) E. SUBSIDIES, LOANS & GRANTS (Schedule E) 516,020 904,879 904,879 4,382,262 4,623,419 4,840,257 216,838 4.69% TOTAL EXPENDITURES II. BUDGET TO BE FUNDED AS FOLLOWS: Cash Balance-Unencumbered 4,239,480 4,480,637 4,697,475 216,838 4.84% General Fund Appropriation (Enter General Fund Lapse Below) State Support Special Funds 142,782 142,782 142,782 Federal Funds Other Special Funds (Specify) Less: Estimated Cash Available Next Fiscal Period 4.69% 4,382,262 4,623,419 4,840,257 216,838 TOTAL FUNDS (equals Total Expenditures above) GENERAL FUND LAPSE III: PERSONNEL DATA Number of Positions Authorized in Appropriation Bill a.) Perm Full 59 59 59 b.) Perm Part c.) T-L Full d.) T-L Part 2 Average Annual Vacancy Rate (Percentage) a.) Perm Full b.) Perm Part c.) T-L Full d.) T-L Part Don Zant Approved by: Lynn Wyman 7/19/2021 2:14 PM Submitted by: Date: Official of Board or Commission

Phone Number:

662-325-2231

Business Manager II

Title:

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	2,906,041	95.32%		2,452,466	94.50%		2,669,304	94.92%	
2. Budget Contingency Fund									
3. Education Enhancement Fund	142,782	4.68%		142,782	5.50%		142,782	5.08%	
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									
14. MS Nonprofit Museums Recovery Fund									
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									
17. Independent Schools' COVID-19 Assistance Grant Fund									
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund	·								
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Salaries	3,048,823		69.57%	2,595,248		56.13%	2,812,086		58.10

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	2,851	100.00		32,000	100.00		32,000	100.00	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									
14. MS Nonprofit Museums Recovery Fund									
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									
17. Independent Schools' COVID-19 Assistance Grant Fund									
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Travel	2,851		0.07%	32,000		0.69%	32,000		0.66

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	389,854	100.00		801,592	100.00		801,592	100.00	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									
14. MS Nonprofit Museums Recovery Fund									
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									
17. Independent Schools' COVID-19 Assistance Grant Fund									
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Contractual	389,854		8.90%	801,592		17.34%	801,592		16.56

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	397,023	100.00		289,700	100.00		289,700	100.00	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									
14. MS Nonprofit Museums Recovery Fund									
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									1
17. Independent Schools' COVID-19 Assistance Grant Fund									
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund	<u> </u>						<u> </u>		
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Commodities	397,023		9.06%	289,700		6.27%	289,700		5.999

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
1. General									
State Support Special (Specify) 2. Budget Contingency Fund									-
3. Education Enhancement Fund			_						-
Health Care Expendable Fund			_						-
5. Tobacco Control Fund			_						-
6. Capital Expense Fund			_						-
7. Working Cash Stabilization Reserve Fund			_						-
8. BP Settlement Fund			_						-
9. Gulf Coast Restoration Fund			_						-
10. Back To Business Mississippi Grant Fund			_						-
11. MS COVID-19 Relief Payment Fund			_						1
12. DFA CARES Act COVID-19 Fund									1
13. MS Tourism Recovery Fund			_						1
14. MS Nonprofit Museums Recovery Fund									1
15. Equity in Distance Learning Fund			_						1
16. Postsecondary Education COVID-19 Relief Grant Fund			-						1
17. Independent Schools' COVID-19 Assistance Grant Fund			-						-
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Capital Other Than Equipment						7			

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	27,691	100.00							
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									
14. MS Nonprofit Museums Recovery Fund									7
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									
17. Independent Schools' COVID-19 Assistance Grant Fund									
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund			_						
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Capital Equipment	27,691		0.63%						

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
1. General									
State Support Special (Specify) 2. Budget Contingency Fund			-						-
3. Education Enhancement Fund			-						1
4. Health Care Expendable Fund			1						-
5. Tobacco Control Fund			-						-
6. Capital Expense Fund									1
7. Working Cash Stabilization Reserve Fund			-			1			-
8. BP Settlement Fund			-						1
9. Gulf Coast Restoration Fund									1
10. Back To Business Mississippi Grant Fund			-						1
11. MS COVID-19 Relief Payment Fund									1
12. DFA CARES Act COVID-19 Fund									1
13. MS Tourism Recovery Fund									1
14. MS Nonprofit Museums Recovery Fund			-						-
15. Equity in Distance Learning Fund			-						1
16. Postsecondary Education COVID-19 Relief Grant Fund									1
17. Independent Schools' COVID-19 Assistance Grant Fund									1
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Vehicles			7						

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
1. General									
State Support Special (Specify) 2. Budget Contingency Fund			-						-
3. Education Enhancement Fund			-						-
4. Health Care Expendable Fund			-						-
5. Tobacco Control Fund			-						-
6. Capital Expense Fund			-						1
7. Working Cash Stabilization Reserve Fund			-						-
8. BP Settlement Fund			-						-
9. Gulf Coast Restoration Fund			-						-
Back To Business Mississippi Grant Fund			-						-
11. MS COVID-19 Relief Payment Fund			-						-
12. DFA CARES Act COVID-19 Fund			-						-
13. MS Tourism Recovery Fund			-						1
14. MS Nonprofit Museums Recovery Fund			-			1			1
15. Equity in Distance Learning Fund			-						1
16. Postsecondary Education COVID-19 Relief Grant Fund			-						1
17. Independent Schools' COVID-19 Assistance Grant Fund			1						1
18. MS Pandemic Response Broadband Availability Grant Program Fund						_			1
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Wireless Communication Devs.									

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	516,020	100.00		904,879	100.00		904,879	100.00	
2. Budget Contingency Fund									
3. Education Enhancement Fund									
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									
14. MS Nonprofit Museums Recovery Fund									
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									
17. Independent Schools' COVID-19 Assistance Grant Fund									
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									
30.									
31.									
32.									
33.									
Total Subsidies	516,020		11.78%	904,879		19.57%	904,879		18.69

Specify Funding Sources As Shown Below	FY 2021 Actual Amount	% of Line Item	% of Total Budget	FY 2022 Estimated Amount	% of Line Item	% of Total Budget	FY 2023 Requested Amount	% of Line Item	% of Total Budget
General State Support Special (Specify)	4,239,480	96.74%		4,480,637	96.91%		4,697,475	97.05%	
2. Budget Contingency Fund									
3. Education Enhancement Fund	142,782	3.26%		142,782	3.09%		142,782	2.95%	
4. Health Care Expendable Fund									
5. Tobacco Control Fund									
6. Capital Expense Fund									
7. Working Cash Stabilization Reserve Fund									
8. BP Settlement Fund									
9. Gulf Coast Restoration Fund									
10. Back To Business Mississippi Grant Fund									
11. MS COVID-19 Relief Payment Fund									
12. DFA CARES Act COVID-19 Fund									
13. MS Tourism Recovery Fund									1
14. MS Nonprofit Museums Recovery Fund									1
15. Equity in Distance Learning Fund									
16. Postsecondary Education COVID-19 Relief Grant Fund									1
17. Independent Schools' COVID-19 Assistance Grant Fund									1
18. MS Pandemic Response Broadband Availability Grant Program Fund									
19. MS Emergency Management Agency COVID-19 Fund									
20. MS Electric Cooperatives Broadband COVID-19 Grant Program Fund									
21. COVID-19 Broadband Provider Grant Program Fund									
22. Rental Assistance Grant Program Fund									
23. ICU Infrastructure Fund									
24. Poultry Farmer Stabilization Grant Program Fund									
25. Mississippi Supplemental CFAP Grant Program Fund									
26. Sweet Potato Farm Sustainment Grant Program Fund									
27. Coronavirus Local Fiscal Recovery Fund									
28. Coronavirus State Fiscal Recovery Fund									
29. Federal Other Special (Specify)									-
30.									-
31.									
32.									
33.									
TOTAL	4,382,262		100.00%	4,623,419		100.00%	4,840,257		100.00

SPECIAL FUNDS DETAIL

MS State Univ - Center for Advanced Vehicular Systems (252-01)

S. STATE SUPPORT SPECIAL FUNDS		(1) Actual Revenues	(2) Estimated Revenues	(3) Requested Revenues
Source (Fund Number)	Detailed Description of Source	FY 2021	FY 2022	FY 2023
Budget Contingency Fund	BCF - Budget Contingency Fund			
Education Enhancement Fund	EEF - Education Enhancement Fund	142,782	142,782	142,782
Health Care Expendable Fund	HCEF - Health Care Expendable Fund			
Tobacco Control Fund	TCF - Tobacco Control Fund			
Capital Expense Fund	CEF - Capital Expense Fund			
Working Cash Stabilization Reserve Fund	WCSRF - Working Cash Stabilization Reserve Fund			
BP Settlement Fund	BPSF - BP Settlement Fund			
Gulf Coast Restoration Fund	GCRF - Gulf Coast Restoration Fund			
Back To Business Mississippi Grant Fund	BTBMGF - Back To Business Mississippi Grant Fund			
MS COVID-19 Relief Payment Fund	MCRPF - MS COVID-19 Relief Payment Fund			
DFA CARES Act COVID-19 Fund	DCACF - DFA CARES Act COVID-19 Fund			
MS Tourism Recovery Fund	MTRF - MS Tourism Recovery Fund			
MS Nonprofit Museums Recovery Fund	MNMRF - MS Nonprofit Museums Recovery Fund			
Equity in Distance Learning Fund	EIDLF - Equity in Distance Learning Fund			
Postsecondary Education COVID-19 Relief Grant Fund	PECMRGF - Postsecondary Education COVID-19 Relief Grant Fund			
Independent Schools' COVID-19 Assistance Grant Fund	ISCAGF - Independent Schools' COVID-19 Assistance Grant Fund			
MS Pandemic Response Broadband Availability Grant Program Fund	MPRBAGPF - MS Pandemic Response Broadband Availability Grant Program Fund			
MS Emergency Management Agency COVID-19 Fund	MEMACF - MS Emergency Management Agency COVID-19 Fund			
MS Electric Cooperatives Broadband COVID-19 Grant Program Fund	MECBCGPF - MS Electric Cooperatives Broadband COVID-19 Grant Program Fund			
COVID-19 Broadband Provider Grant Program Fund	CBPGPF - COVID-19 Broadband Provider Grant Program Fund			
Rental Assistance Grant Program Fund	RAGPF - Rental Assistance Grant Program Fund			
ICU Infrastructure Fund	IIF - ICU Infrastructure Fund			
Poultry Farmer Stabilization Grant Program Fund	PFSGPF - Poultry Farmer Stabilization Grant Program Fund			
Mississippi Supplemental CFAP Grant Program Fund	MSCGPF - Mississippi Supplemental CFAP Grant Program Fund			
Sweet Potato Farm Sustainment Grant Program Fund	SPFSGPF - Sweet Potato Farm Sustainment Grant Program Fund			
Coronavirus Local Fiscal Recovery Fund	CLFRF - Coronavirus Local Fiscal Recovery Fund			
Coronavirus State Fiscal Recovery Fund	CSFRF - Coronavirus State Fiscal Recovery Fund			
	State Support Special Fund TOTAL	142,782	142,782	142,782
STATE SUPPORT SPECIAL FUND LAPS	SE			

A. FEDERAL FUNDS *		Percentage Match Requirement	(1) Actual Revenues	(2) Estimated Revenues	(3) Requested Revenues
Source (Fund Number)	Detailed Description of Source	FY 2022 FY 2023	FY 2021	FY 2022	FY 2023
	Cash Balance-Unencumbered				
	Federal Fund TOTAL				

SPECIAL FUNDS DETAIL

MS State Univ - Center for Advanced Vehicular Systems (252-01)

B. OTHER SPECIAL FUNDS (NON-FED'L) Source (Fund Number)	Detailed Description of Source	(1) Actual Revenues FY 2021	(2) Estimated Revenues FY 2022	(3) Requested Revenues FY 2023
	Cash Balance-Unencumbered			
	Other Special Fund TOTAL			
			'	
	SECTIONS S + A + B TOTAL	142,782	142,782	142,782

C. TREASURY FUND/BANK			(1)	(2)	(3)
ACCOUNTS *			Reconciled	` '	` ′
	Fund/Account		Balance	Balance	Balance
Name of Fund/Account	Number	Name of Bank (If Applicable)	as of 6/30/21	as of 6/30/22	as of 6/30/23

^{*} Any non-federal funds that have restricted uses must be identified and narrative of restrictions attached.

NARRATIVE OF SPECIAL FUNDS DETAIL AND TREASURY FUND/BANK ACCOUNTS

MS State Univ - Center 10	Advanced Vehicular Systems (252-01)	
NT CA		

Name of Agency

STATE SUPPORT SPECIAL FUNDS

In CAVS' new focus area, funds will also be used to support major initiatives in the use of autonomous vehicles. New research and outreach activities are needed to help industry integrate autonomous vehicles into industrial applications. With the state's emphasis on manufacturing jobs it is critical to develop an understanding of how autonomous vehicles can help with productivity gains within the controlled spaces of Mississippi's manufacturing enterprise. Due to an expanding need for the use of autonomous vehicles in Mississippi and the rest of the country, industrial outreach efforts will be needed to assist MDOT, MDA, and Mississippi industry in preparing for this change in manufacturing practice and assist the state in workforce development and changes to manufacturing protocols.

MS State Univ - Center for Advanced Vehicular Systems (252-01)

SUMMARY OF ALL PROGRAMS
Program

Name of Agency

	FY 2021 Actual					
	(1)	(2)	(3)	(4)	(5)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	2,906,041	142,782			3,048,823	
Travel	2,851				2,851	
Contractual Services	389,854				389,854	
Commodities	397,023				397,023	
Other Than Equipment						
Equipment	27,691				27,691	
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants	516,020				516,020	
Total	4,239,480	142,782			4,382,262	
No. of Positions (FTE)	61.00				61.00	

		FY 2022 Estimated				
	(6)	(7)	(8)	(9)	(10)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	2,452,466	142,782			2,595,248	
Travel	32,000				32,000	
Contractual Services	801,592				801,592	
Commodities	289,700				289,700	
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants	904,879				904,879	
Total	4,480,637	142,782			4,623,419	
No. of Positions (FTE)	61.00				61.00	

	FY 2023 Increase/Decrease for Continuation					
	(11)	(12)	(13)	(14)	(15)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	216,838				216,838	
Travel						
Contractual Services						
Commodities						
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants						
Total	216,838				216,838	
No. of Positions (FTE)						

MS State Univ - Center for Advanced Vehicular Systems (252-01)

SUMMARY OF ALL PROGRAMS

Name of Agency Program FY 2023 Expansion/Reduction of Existing Activities (16)**(17)** (18)(20)General State Support Special Federal Other Special Total Salaries, Wages & Fringe Travel Contractual Services Commodities Other Than Equipment Equipment Vehicles Wireless Communication Devices Subsidies, Loans & Grants Total No. of Positions (FTE)

	FY 2023 New Activities (*)					
	(21)	(22)	(23)	(24)	(25)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe						
Travel						
Contractual Services						
Commodities						
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants						
Total						
No. of Positions (FTE)						

		FY 2023 Total Request				
	(26)	(27)	(28)	(29)	(30)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	2,669,304	142,782			2,812,086	
Travel	32,000				32,000	
Contractual Services	801,592				801,592	
Commodities	289,700				289,700	
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants	904,879				904,879	
Total	4,697,475	142,782			4,840,257	
No. of Positions (FTE)	61.00				61.00	

SUMMARY OF PROGRAMS FORM MBR-1-03sum

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

FUNDING REQUESTED FISCAL YEAR 2023

	PROGRAM	GENERAL	ST. SUPP. SPECIAL	FEDERAL	OTHER SPECIAL	TOTAL
1.	Research	3,573,860	142,782			3,716,642
2.	Public Service	1,123,615				1,123,615
	Summary of All Programs	4,697,475	142,782			4,840,257

Program 1 of 2

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Research

Name of Agency

Program

	FY 2021 Actual					
	(1)	(2)	(3)	(4)	(5)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	2,434,774	142,782			2,577,556	
Travel	914				914	
Contractual Services	297,873				297,873	
Commodities	374,541				374,541	
Other Than Equipment						
Equipment	27,691				27,691	
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants	86,391				86,391	
Total	3,222,184	142,782			3,364,966	
No. of Positions (FTE)	54.29				54.29	

	FY 2022 Estimated					
	(6)	(7)	(8)	(9)	(10)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	1,717,188	142,782			1,859,970	
Travel	10,000				10,000	
Contractual Services	718,594				718,594	
Commodities	211,577				211,577	
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants	750,000				750,000	
Total	3,407,359	142,782			3,550,141	
No. of Positions (FTE)	54.29				54.29	

	FY 2023 Increase/Decrease for Continuation					
	(11)	(12)	(13)	(14)	(15)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe	166,501				166,501	
Travel						
Contractual Services						
Commodities						
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants						
Total	166,501				166,501	
No. of Positions (FTE)						

	Program 1 of 2
MS State Univ - Center for Advanced Vehicular Systems (252-01)	Research
Name of Agency	Program

		FY 2023 Expansion/Reduction of Existing Activities				
	(16)	(17)	(18)	(19)	(20)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe						
Travel						
Contractual Services						
Commodities						
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants						
Total						
No. of Positions (FTE)						

	FY 2023 New Activities (*)				
	(21)	(22)	(23)	(24)	(25)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe					
Travel					
Contractual Services					
Commodities					
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants					
Total					
No. of Positions (FTE)					

	FY 2023 Total Request				
	(26)	(27)	(28)	(29)	(30)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe	1,883,689	142,782			2,026,471
Travel	10,000				10,000
Contractual Services	718,594				718,594
Commodities	211,577				211,577
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants	750,000				750,000
Total	3,573,860	142,782			3,716,642
No. of Positions (FTE)	54.29				54.29

Program	2 of	2
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MS State Univ - Center for Advanced Vehicular Systems (252-01)

Public Service

Name of Agency

Program

	FY 2021 Actual				
	(1)	(2)	(3)	(4)	(5)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe	471,267				471,267
Travel	1,937				1,937
Contractual Services	91,981				91,981
Commodities	22,482				22,482
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants	429,629				429,629
Total	1,017,296				1,017,296
No. of Positions (FTE)	6.71				6.71

	FY 2022 Estimated				
	(6)	(7)	(8)	(9)	(10)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe	735,278				735,278
Travel	22,000				22,000
Contractual Services	82,998				82,998
Commodities	78,123				78,123
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants	154,879				154,879
Total	1,073,278				1,073,278
No. of Positions (FTE)	6.71				6.71

	FY 2023 Increase/Decrease for Continuation				
	(11)	(12)	(13)	(14)	(15)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe	50,337				50,337
Travel					
Contractual Services					
Commodities					
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants					
Total	50,337				50,337
No. of Positions (FTE)					

	Program 2 of 2
MS State Univ - Center for Advanced Vehicular Systems (252-01)	Public Service
Name of Agency	Program

	FY 2023 Expansion/Reduction of Existing Activities				
	(16)	(17)	(18)	(19)	(20)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe					
Travel					
Contractual Services					
Commodities					
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants					
Total					
No. of Positions (FTE)					

	FY 2023 New Activities (*)					
	(21)	(22)	(23)	(24)	(25)	
	General	State Support Special	Federal	Other Special	Total	
Salaries, Wages & Fringe						
Travel						
Contractual Services						
Commodities						
Other Than Equipment						
Equipment						
Vehicles						
Wireless Communication Devices						
Subsidies, Loans & Grants						
Total						
No. of Positions (FTE)						

	FY 2023 Total Request				
	(26)	(27)	(28)	(29)	(30)
	General	State Support Special	Federal	Other Special	Total
Salaries, Wages & Fringe	785,615				785,615
Travel	22,000				22,000
Contractual Services	82,998				82,998
Commodities	78,123				78,123
Other Than Equipment					
Equipment					
Vehicles					
Wireless Communication Devices					
Subsidies, Loans & Grants	154,879				154,879
Total	1,123,615				1,123,615
No. of Positions (FTE)	6.71				6.71

PROGRAM DECISION UNITS

MS State Univ - Center for Advanced Vehicular Systems

1 - Research

Name of Agency

Program Name

Name of Agency							Program Name
	A	В	C	D	E	F	
	FY 2022	Escalations By	Non-Recurring	SREB Salary	Total Funding	FY 2023 Total	
EXPENDITURES	Appropriated	DFA	Items	Increase	Change	Request	
SALARIES	1,859,970			166,501	166,501	2,026,471	
GENERAL	1,717,188			166,501	166,501	1,883,689	
ST. SUP. SPECIAL	142,782					142,782	
FEDERAL							
OTHER	10,000					10.000	
TRAVEL	10,000					10,000	
GENERAL ST. SUP.SPECIAL	10,000					10,000	
FEDERAL							
OTHER							
CONTRACTUAL	719.504					719 504	
GENERAL	718,594 718,594					718,594 718,594	
ST. SUP. SPECIAL	/18,394					/18,394	
FEDERAL							
OTHER							
COMMODITIES	211 577					211.577	
	211,577					211,577	
GENERAL ST. SUB-SPECIAL	211,577					211,577	
ST. SUP. SPECIAL							
FEDERAL OTHER							
CAPTITAL-OTE							
GENERAL ST. SHP. SPECIAL							
ST. SUP. SPECIAL							
FEDERAL							
OTHER							
EQUIPMENT							
GENERAL							
ST. SUP. SPECIAL							
FEDERAL							
OTHER							
VEHICLES							
GENERAL							
ST. SUP. SPECIAL							
FEDERAL							
OTHER							
WIRELESS DEV							
GENERAL							
ST. SUP. SPECIAL							
FEDERAL							
OTHER							
SUBSIDIES	750,000					750,000	
GENERAL	750,000					750,000	
ST. SUP. SPECIAL							
FEDERAL							
OTHER							
TOTAL	3,550,141			166,501	166,501	3,716,642	
FUNDING							
GENERAL FUNDS	3,407,359			166,501	166,501	3,573,860	
ST. SUP .SPCL FUNDS	142,782			100,501	100,501	142,782	
FEDERAL FUNDS	172,702					172,732	
OTHER SP. FUNDS	2.550.141			1// 701	100 501	2.71 < < 42	
TOTAL	3,550,141		L	166,501	166,501	3,716,642	
POSITIONS							
	54.29					54.29	
GENERAL FTE	34.29					J+.29	
ST. SUP. SPCL. FTE							
FEDERAL FTE							
FEDERAL FTE OTHER SP. FTE							
	54.29					54.29	

Name of Agency

PROGRAM DECISION UNITS

MS State Univ - Center for Advanced Vehicular Systems

2 - Public Service

Program Name

	A	В	C	D	Е	F		
	FY 2022	Escalations By	Non-Recurring	SREB Salary	Total Funding	FY 2023 Total		
EXPENDITURES	Appropriated	DFA	Items	Increase	Change	Request		
SALARIES	735,278			50,337		785,615		
GENERAL	735,278			50,337	50,337	785,615		
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
TRAVEL	22,000					22,000		
GENERAL	22,000					22,000		
ST. SUP.SPECIAL								
FEDERAL								
OTHER								
CONTRACTUAL	82,998					82,998		
GENERAL	82,998					82,998		
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
COMMODITIES	78,123					78,123		
GENERAL	78,123					78,123		
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
CAPTITAL-OTE								
GENERAL								
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
EQUIPMENT								
GENERAL								
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
VEHICLES								
GENERAL								
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
WIRELESS DEV								
GENERAL								
ST. SUP. SPECIAL								
FEDERAL								
OTHER								
SUBSIDIES	154,879					154,879		
GENERAL GENERAL	154,879					154,879		
ST. SUP. SPECIAL								
FEDERAL								
OTHER	1.070.070			50.225	50.005	1 100 617		
TOTAL	1,073,278			50,337	50,337	1,123,615		
FUNDING								
GENERAL FUNDS	1,073,278			50,337	50,337	1,123,615		
ST. SUP .SPCL FUNDS	=,0.0,270			20,237	20,237	-,120,010		
FEDERAL FUNDS								
OTHER SP. FUNDS								
TOTAL	1,073,278			50,337	50,337	1,123,615		
IOIAL	1,073,278		<u> </u>	30,337	30,337	1,123,013	<u> </u>	
POSITIONS								
GENERAL FTE	6.71					6.71		
ST. SUP. SPCL. FTE								
FEDERAL FTE								
OTHER SP. FTE						251		
TOTAL	6.71		1			6.71		
PRIORITY LEVEL:								
				1				

PROGRAM NARRATIVE

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994 (To Accompany Form MBR-1-03)

MS State Univ - Center for Advanced Vehicular Systems 1 - Research Name of Agency Program Name

I. Program Description:

The Center for Advanced Vehicular Systems (CAVS) at Mississippi State University is an interdisciplinary center comprised of engineering, research, development, and technology transfer teams focused on enhancing human and payload mobility. The CAVS activities are clustered around material science, manufacturing process modeling, computational mechanics, computational fluid dynamics, multi-scale modeling, logistics and supply chain, vehicular systems engineering, design optimization, human factors and ergonomics, alternative powered systems, and intelligent electronic systems. Research activities include efforts on life cycle costs, additive manufacturing, combustion engine technologies, autonomous vehicle control (robotics) as well as advances in improved diagnostics, manufacturing, human interface, and computational design technologies. While CAVS projects generate timely solutions relevant to regional manufacturers, CAVS research seeks to expand knowledge that is essential for sustained economic development. Through direct involvement in various activities at CAVS, students gain valuable experience that leverages on their classroom learning.

II. Program Objective:

The objective of CAVS is to serve Mississippi State University, government, and industry through research and development of advanced computational modeling, simulation, and design of physical systems to solve real world problems. CAVS houses multiple research groups that provide cross-disciplinary research capabilities to address advancing technologies to solve complex problems for industry and our customers. As a result of CAVS' application-driven, team-oriented approach to basic and applied research on complex industrially-relevant engineering problems, we have contributed to:

- new products for existing Mississippi industry;
- retention and creation of new manufacturing jobs;
- improved vehicle performance and reduced design cycle time and cost; including manufacturing lead-time.
- timely generation of knowledge on the behavior and capabilities of missile, flight, naval vessels and other physical systems;
- analysis of behavior and performance of engineering systems (including humans) under adverse or catastrophic conditions;
- development of high-fidelity simulation tools and training;
- simulation and design systems to both enable and support designers and manufacturers of land, sea, air and space vehicular systems.
- III. Current program activities as supported by the funding in Columns 6-15 (FY 2022 & FY 2023Increase/Decrease for continuations) of MBR-1-03 and designated Budget Unit Decisions columns of MBR-1-03-A:

(D) SREB Salary Increase:

Board approved 1/6th SREB salary increase. Funds to be allocated through the allocation model.

PROGRAM NARRATIVE

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994 (To Accompany Form MBR-1-03)

Name of Agency

2 - Public Service

Name of Agency Program Name

I. Program Description:

MS State Univ - Center for Advanced Vehicular Systems

CAVS has proven to be a leading economic development engine for the State of Mississippi. In addition to the CAVS MSU campus facility, in support of its mission, CAVS also offers a direct interface to manufacturers and industries throughout the state and region via the CAVS Engineering Extension, located in Canton, Mississippi. To better serve CAVS' statewide clientele new extension offices have been opened in Biloxi and Starkville, MS. The services offered by the CAVS Engineering Extension include discrete event simulation, professional training in such topics as Six Sigma, lean manufacturing, and metrology. Mississippi's automotive industry and its suppliers are in a global labor competition, so securing lasting jobs is an important activity. Further, there is an increased demand for engineers and technologists to support the increasingly complex problems. According to surveys conducted by the Manufacturing Extension Partnership of Mississippi in the period of 2006-2021, CAVS has had more than \$6.22 billion economic impact on the state and is responsible for over 6,400 jobs created or retained. Similar projects on behalf of other Mississippi companies help secure jobs throughout the state.

II. Program Objective:

Although CAVS research, development, and extension activities are important to the automotive industry and its suppliers in attaining its goals, it is also clear CAVS has a broader impact. We have significant project work in support of major industry within the state – e.g., Toyota, Nissan, PACCAR, Taylor Power, Viking Range, Baxter Healthcare, and Huntington Ingalls. . . We are also initiating a more focused activity to support the manufacturing industry on the Gulf coast. CAVS current efforts have touched on many manufacturers and hundreds of employees in the State, especially via our workforce training efforts. From this foundation, CAVS brings the promise for enhanced productivity to further grow the employment base. Thus, the financial support for growing CAVS and its cadre of skilled technologists has significant and long-term implications to the State.

III. Current program activities as supported by the funding in Columns 6-15 (FY 2022 & FY 2023Increase/Decrease for continuations) of MBR-1-03 and designated Budget Unit Decisions columns of MBR-1-03-A:

(D) SREB Salary Increase:

Board approved 1/6th SREB salary increase. Funds to be allocated through the allocation model.

Form MBR-1-03QPD

Elements of Quality Program Design

For the Evaluation of Requests to Fund New Programs or New Activity in an Existing Program (To Accompany Form MBR-1-03A)

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

1 - Research

PROGRAM NAME

PROGRAM OUTPUTS: (This is the measure of the process necessary to carry on the goals and objectives of this program. This is the volume produced, i.e., how many people served, how many documents generated.)

	FY 2021 APPRO	FY 2021 ACTUAL	FY 2022 ESTIMATED	FY 2023 PROJECTED
1 # Agency Proposals	76.00	83.00	76.00	76.00
2 # Company Proposals	25.00	11.00	25.00	26.00
3 \$ Agency Proposals (in millions)	51.00	103.00	51.10	52.00
4 \$ Company Proposals (in millions)	7.40	2.00	7.50	7.50
5 Expenditures - Internal (in millions)	7.50	8.30	7.50	7.50
6 Expenditures - Agencies (in millions)	18.50	21.40	18.60	18.60
7 Expenditures - Company (in millions)	1.00	0.00	1.00	1.00
8 Awards - Agencies	50.00	76.00	51.00	51.00
9 Awards - Company	21.00	8.00	21.00	21.00
10 \$ Agency Awards (in millions)	13.00	26.00	13.00	13.00
11 \$ Company Awards (in millions)	2.20	0.20	2.25	2.25
12 # Managers	4.00	4.00	4.00	4.00
13 # Academic Faculty	58.00	103.00	59.00	59.00
14 # Research Professionals	120.00	111.00	120.00	120.00
15 # Support Staff	32.00	27.00	32.00	32.00
16 # Post Docs	25.00	18.00	25.00	25.00
17 # PhD Students Employed	130.00	88.00	130.00	130.00
18 # MS Students Employed	58.00	64.00	58.00	58.00
19 # Undergraduate Students Employed	175.00	225.00	175.00	180.00
20 # Books/Articles Submitted or Awaiting Publication	7.00	15.00	7.00	8.00
21 # Conf Papers Submitted or Awaiting Publication	1.00	3.00	1.00	1.00
22 # Authors of Proposals	66.00	53.00	67.00	67.00

PROGRAM EFFICIENCIES: (This is the measure of the cost, unit cost or productivity associated with a given outcome or output. This measure indicates linkage between services and funding, i.e., cost per investigation, cost per student or number of days to complete investigation.)

	FY 2021 APPRO	FY 2021 ACTUAL	FY 2022 ESTIMATED	FY 2023 PROJECTED
1 # Proposals / # Faculty & Managers	2.30	23.50	2.40	2.50
2 \$ Proposals / # Faculty & Managers (in millions)	1.45	26.30	1.45	1.50
3 Expenditures / # Faculty & Managers (in millions)	1.10	7.40	1.15	1.15
4 # Awards / # Faculty & Managers	2.25	21.00	2.25	2.30
5 Expenditures / # Support Staff and Others (in millions)	0.06	0.06	0.07	0.70
6 # Books-Chapters-Articles/# Faculty & Mgrs	1.60	0.48	1.60	1.60
7 # Peer-reviewed Conf Papers/# Faculty & Mgrs	0.88	0.23	0.88	0.88
8 # Tech Reports / # Faculty & Mgrs	0.48	0.17	0.49	0.49

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994

MS State Univ - Center for Advanced Vehicular Systems (252-01)		1 - Researc		
Name of Agency		PROGRAM NAME		

PROGRAM OUTCOMES: (This is the measure of the quality or effectiveness of the services provided by this program. This measure provides an assessment of the actual impact or public benefit of your agency's actions. This is the results produced, i.e., increased customer satisfaction by x% within a 12-month period, reduce the number of traffic fatalities due to drunk drivers within a 12-month period.

	FY 2021 APPRO	FY 2021 ACTUAL	FY 2022 ESTIMATED	FY 2023 PROJECTED
1 Books/Book Chapters Published	4.50	4.00	4.50	4.50
2 Articles Published in Trade Journals	4.00	2.00	4.00	4.00
3 Articles Published in Peer-reviewed Journals	80.00	45.00	80.00	80.00
4 Peer-reviewed Conference Papers	42.00	25.00	42.00	42.00
5 Peer-reviewed Conference Abstracts & Posters	21.00	25.00	21.00	21.00
6 Theses/Dissertations	7.00	2.00	7.00	7.00
7 Technical Reports	20.00	18.00	20.00	20.00
8 Awards/Recognitions	8.00	7.00	8.00	8.00
9 Non-refereed Conf Papers/Abstracts/Posters	20.00	0.00	20.00	20.00

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

2 - Public Service

PROGRAM NAME

PROGRAM OUTPUTS: (This is the measure of the process necessary to carry on the goals and objectives of this program. This is the volume produced, i.e., how many people served, how many documents generated.)

	FY 2021 APPRO	FY 2021 ACTUAL	FY 2022 ESTIMATED	FY 2023 PROJECTED
1 # Agency Proposals	8.00	4.00	8.50	8.50
2 # Company Proposals	6.00	5.00	6.50	6.50
3 \$ Agency Proposals (in millions)	4.20	10.50	4.20	4.25
4 \$ Company Proposals (in millions)	0.40	0.50	0.50	0.50
5 Expenditures - Internal (in millions)	1.00	1.00	1.00	1.00
6 Expenditures - Agencies (in millions)	0.45	0.50	0.46	0.47
7 Expenditures - Company (in millions)	0.25	0.00	0.25	0.25
8 Awards - Agencies	9.00	1.00	9.00	9.00
9 Awards - Company	6.00	1.00	6.50	6.50
10 \$ Agency Awards (in millions)	1.50	0.80	1.50	1.50
11 \$ Company Awards (in millions)	0.30	0.05	0.30	0.30
12 # Managers	2.00	4.00	2.00	2.00
13 # Academic Faculty	2.00	0.00	2.50	2.50
14 # Research Professionals	28.00	27.00	28.00	28.00
15 # Support Staff	4.50	8.00	4.50	4.50
16 # Undergraduate Students Employed	6.00	1.00	6.00	6.00
17 # Books/Articles Submitted or Awaiting Publication	1.00	0.00	1.00	1.00
18 # Conf Papers Submitted or Awaiting Publication	1.00	11.00	1.00	1.00
19 # Authors of Proposals	19.00	15.00	19.00	19.00

PROGRAM EFFICIENCIES: (This is the measure of the cost, unit cost or productivity associated with a given outcome or output. This measure indicates linkage between services and funding, i.e., cost per investigation, cost per student or number of days to complete investigation.)

	FY 2021 APPRO	FY 2021 ACTUAL	FY 2022 ESTIMATED	FY 2023 PROJECTED
1 # Proposals / # Faculty & Managers	5.50	2.25	5.50	5.50
2 \$ Proposals / # Faculty & Managers (in millions)	1.05	2.75	1.05	1.05
3 Expenditures / # Faculty & Managers (in millions)	0.80	0.36	0.80	0.80
4 # Awards / # Faculty & Managers	3.30	0.50	3.30	3.30
5 Expenditures / # Support Staff and Others (in millions)	0.25	0.04	0.25	0.25
6 # Books-Chapters-Articles/# Faculty & Mgrs	0.01	1.00	0.01	0.01
7 # Peer-reviewed Conf Papers/# Faculty & Mgrs	1.20	0.50	1.20	1.20
8 # Tech Reports / # Faculty & Mgrs	10.00	6.00	10.00	10.00

Program Data Collected in Accordance with the Mississippi Performance Budget and Strategic Planning Act of 1994

MS State Univ - Center for Advanced Vehicular Systems (252-01)		2 - Public Service		
Name of Agency		PROGRAM NAME		

PROGRAM OUTCOMES: (This is the measure of the quality or effectiveness of the services provided by this program. This measure provides an assessment of the actual impact or public benefit of your agency's actions. This is the results produced, i.e., increased customer satisfaction by x% within a 12-month period, reduce the number of traffic fatalities due to drunk drivers within a 12-month period.

	FY 2021 APPRO	FY 2021 ACTUAL	FY 2022 ESTIMATED	FY 2023 PROJECTED
1 Awards/Recognitions	0.00	0.00	0.00	0.00
2 Technical Reports	0.00	2.00	0.00	2.00
3 Peer-reviewed Conference Abstracts & Posters	0.00	0.00	0.00	0.00
4 Peer-reviewed Conference Papers	0.00	1.00	0.00	1.00
5 Articles Published in Peer-reviewed Journals	0.00	0.00	0.00	0.00
6 Articles Published in Trade Journals	55.00	12.00	55.00	55.00
7 Books/Book Chapters Published	1.00	2.00	1.00	1.00

PROGRAM 3% GENERAL FUND REDUCTION AND NARRATIVE EXPLANATION

MS State Univ - Center for Advanced Vehicular Systems (252-01)

	Fi	g	FY 2022 GF PERCENT	
	Total Funds	Reduced Amount	Reduced Amount Reduced Funding Amount	
Program Name: (1) Research				
General	3,407,359	(103,215)	3,304,144	(3.03%)
State Support Special	142,782		142,782	
Federal				
Other Special				
TOTAL	3,550,141	(103,215)	3,446,926	
Narrative Explanation:				
A 3% reduction in funding would be absorbed by cov	vering more contractual c	osts with discretionary f	unding.	

Program Name: (2) Public Service								
General	1,073,278	(31,204)	1,042,074	(2.91%)				
State Support Spec	ial							
Federal								
Other Special								
TOTAL	1,073,278	(31,204)	1,042,074					
Narrative Explanation:								
A 3% reduction in funding would be abso	3% reduction in funding would be absorbed by covering more contractual costs with discretionary funding							

A 3% reduction in funding would be absorbed by covering more contractual costs with discretionary funding.

Program Name: (99) Summary of All Programs					
	General	4,480,637	(134,419)	4,346,218	(3.00%)
	State Support Special	142,782		142,782	
	Federal				
	Other Special				
	TOTAL	4,623,419	(134,419)	4,489,000	

BOARD OF TRUSTEES OF STATE INSTITUTIONS OF HIGHER LEARNING MEMBERS

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

A. Explain Rate and manner in which board members are reimbursed:

Board members are reimbursed through the Institutions of Higher Learning System Administration budget with a per diem of \$40 plus expenses.

B. Estimated number of meetings FY 2022:

12 (twelve)

C. Board Members	City, Town, Residence	Appointed By	Date Appointed	Length of Term
1. Dr. Alfred E. McNair, JR	Ocean Springs, MS	Bryant	05/08/2015	9 years
2. Dr. J. Walt Starr	Columbus, MS	Bryant	05/08/2015	9 years
3. Mr. Chip Morgan	Leland, MS	Bryant	05/08/2015	9 years
4. Mr. Thomas Duff	Hattiesburg, MS	Bryant	05/08/2015	9 years
5. Dr. Steven Cunningham	Hattiesburg, MS	Bryant	05/08/2018	9 years
6. Mr. Bruce Martin	Meridian, MS	Bryant	05/08/2018	9 years
7. Mr. Powell Gee Ogletree Jr.	Ridgeland, MS	Bryant	05/08/2018	9 years
8. Ms. Jeanne Carter Luckey	Ocean Springs, MS	Bryant	05/08/2018	9 years
9. Dr. Ormella Cummings, PhD	Tupelo, MS	Reeves	05/18/2021	9 years
10. Mr. Gregory Rader	Columbus, MS	Reeves	05/18/2021	9 years
11. Mr. Hal Parker	Bolton, MS	Reeves	05/18/2021	9 years
12. Ms. Teresa Hubbard	Oxford, MS	Reeves	05/18/2021	9 years

SCHEDULE B CONTRACTUAL SERVICES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested for FY Ending June 30, 2023
A TI '' D			
A. Tuition, Rewards & Awards (61050xxx-61080xxx)		2 500	2.500
61010 Tuition	1.740	2,500	2,500
61020 Employee Training	1,740	3,572	3,572
Total	1,740	6,072	6,072
B. Transportation & Utilities (61100xxx-61200xxx)			
61110 Postage, Box Rental, etc	2,093		
611XX Transportation of Goods (61180-61190)	2,025	15,000	15,000
61210 Electricity	1,267	1,000	1,000
Total	5,385	16,000	16,000
C. Public Information (61300xxx-6131xxxx)			
61310 Advertising & Public Information	2,020		
Total	2,020		
D. Rents (61400xxx-61490xxx)			
61420 Building and Floor Space		1,000	1,000
61490 Other Rentals	10,476	20,000	20,000
Total	10,476	21,000	21,000
E. Repairs & Service (61500xxx)			
61500 Grounds, Walks, Fences, & Lots	57,322	32,000	32,000
61520 Buildings	58,763	31,000	31,000
61540 Motor Vehicles	4,437	1,500	1,500
Total	120,522	64,500	64,500
F. Fees, Professional & Other Services (6161xxxx-61699xxx)	-		
XXX Laboratory & Testing Fees		2,500	2,500
XXX OnCampus Visitor Parking Permits - Non-gated	38		
XXX Installation labor	1,800		
XXX Advertising Video Production	5,000		
Total	6,838	2,500	2,500
G. Other Contractual Services (61700xxx-61790xxx, 61900xxx)			
61710 Insurance & Fidelity Bonds	2,995	1,200	1,200
61720 Membership Dues	750		
61721 Subscriptions		500	500
61730 Laundry, Dry Cleaning, & Towel Service		150	150
XXX Custodial Services	43,840	45,000	45,000

SCHEDULE B CONTRACTUAL SERVICES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested for FY Ending June 30, 2023
XXX Software Maintenance	55,190	60,000	60.000
	·		
XXX Maintenance Contracts - Equipment	56,164	100,000	100,000
XXX Garbage Disposal	6,473	3,000	3,000
XXX Contractual Services - HPC Retainage		407,650	407,650
XXX Other Misc Contractual Services (includes MTA)	252	1,000	1,000
XXX Pest Control	2,303	2,000	2,000
XXX Hazardous Waste	6,719	7,500	7,500
Total	174,686	628,000	628,000
H. Information Technology (61800xxx-61890xxx)			
61902 IT Professional Fees - Outside Vendor	622	1,500	1,500
61921 Software Acquisition, Installation and Maintenance	22,887		
61923 Basic Telephone Monthly	37,383	38,000	38,000
61924 Long Distance Charges - Outside Vendor	2,969	15,000	15,000
61925 Long Distance Charges - ITS	4,326	5,000	5,000
61928 Private Network Access Charges - Outside Vendor		4,020	4,020
Total	68,187	63,520	63,520
Grand Total (Enter on Line 1-B of Form MBR-1)	389,854	801,592	801,592
Funding Summary:			
General Funds	389,854	801,592	801,592
State Support Special Funds			
Federal Funds			
Other Special Funds			
Total Funds	389,854	801,592	801,592

SCHEDULE C COMMODITIES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested for FY Ending June 30, 2023
A. Maintenance & Constr. Materials & Supplies (62000xxx, 62015xxx)			
62040 Lumber Parts			
62060 Paints			
Total			
B. Printing & Office Supplies & Materials (62010xxx, 62085xxx, 62100xx	xx, 62125xxx, 62400xxx)		
62110 Printing, Binding, & Padding	237	3,200	3,200
62120 Duplication and Reproduction	936		
62130 Office Supplies and Materials	23,045	15,000	15,000
62140 Paper Supplies		1,500	1,500
62160 Office Equipment (not capital outlay)	62,714	90,000	90,000
Total	86,932	109,700	109,700
C. Equipment Repair Parts, Supplies & Acces. (6205xxxx, 62072xxx, 621	10xxx, 62115xxx, 62120xx	xx, 62130xxx)	
62210 Fuels - Gasoline	135	2,500	2,500
62290 Other Equipment Repair Parts	31,597	30,000	30,000
Total	31,732	32,500	32,500
D. Professional & Sci. Supplies and Materials (62025xxx, 62030xxx, 6207	0xxx, 62095xxx, 62105xxx	x, 6212xxxx)	
62330 Photographic Supplies	303	400	400
62340 Drugs Chemicals - Medical and Lab Use	22,223	22,000	22,000
62390 Other Professional Scientific	133,269	52,500	52,500
Total	155,795	74,900	74,900
E. Other Supplies & Materials (62005xxx, 62015xxx, 62020xxx, 62035xxx, 62090xxx, 62115xxx, 62135xxx, 62140xxx, 62405xxx, 62415xxx, 62500xxx		060xxx, 62065xxx, 62075	5xxx-62080xxx,
62420 Hardware, Plumbing, and Electrical	296	1,000	1,000
62450 Janitor Supplies and Cleaning	3,598	4,500	4,500
62460 Wearing Material	165	100	100
6247X Food			
62590 Other Supplies and Materials	19,154	15,000	15,000
62595 Other Equipment - Comp	99,351	52,000	52,000
Total	122,564	72,600	72,600
Grand Total	207.022	290 700	200 700
(Enter on Line 1-C of Form MBR-1)	397,023	289,700	289,700
Funding Summary:			
General Funds	397,023	289,700	289,700
State Support Special Funds			

SCHEDULE C COMMODITIES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested for FY Ending June 30, 2023
Federal Funds			
Other Special Funds			
Total Funds	397,023	289,700	289,700

SCHEDULE D-1 CAPITAL OUTLAY OTHER THAN EQUIPMENT

MS State Univ - Center for Advanced Vehicular Systems (252-01)

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested for FY Ending June 30, 2023
Grand Total			
(Enter on Line 1-D-1 of Form MBR-1)			
Funding Summary:			
General Funds			
State Support Special Funds			
Federal Funds			
Other Special Funds			
Total Funds			

SCHEDULE D-2 CAPITAL OUTLAY EQUIPMENT

MS State Univ - Center for Advanced Vehicular Systems (252-01)

	Act. FY	Ending June 30, 2021	Est. FY	Ending June 30, 2022	Req. FY	Ending June 30, 2023	
EQUIPMENT BY ITEM	No. of Units	Total Cost	No. of Units	Total Cost	No. of Units	Total Cost	
	-		-				
F. Other Equipment (63200xxx)							
EVS KNEE MILL - Two Elk Inv	1	21,316					
BAND SAW - Gulf States	1	6,375					
Total		27,691					
Grand Total							
(Enter on Line 1-D-2 of Form MBR-1)		27,691					
Funding Summary:							
General Funds		27,691					
State Support Special Funds							
Federal Funds							
Other Special Funds							
Total Funds		27,691					

State of Mississippi Form MBR-1-D-3

SCHEDULE D-3 PASSENGER/WORK VEHICLES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

	Vehicle	Act. FY	Ending June 30, 2021	Est. FY	Ending June 30, 2022	Req. FY Ending June 30, 2023	
MINOR OBJECT OF EXPENDITURE	Inventory June 30, 2021	No. of Units	Total Cost	No. of Units	Total Cost	No. of Units	Total Cost
GRAND TOTAL							
(Enter on Line 1-D-3 of Form MBR-1)							
Funding Summary:							
General Funds							
State Support Special Funds							
Federal Funds							
Other Special Funds							
Total Funds							

State of Mississippi Form MBR-1-D-4

SCHEDULE D-4 WIRELESS COMMUNICATION DEVICES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

	Device	Act. FY	Ending June 30, 2021	Est. FY	Ending June 30, 2022	Req. FY	Ending June 30, 2023
MINOR OBJECT OF EXPENDITURE	Inventory June 30, 2021	No. of Devices	Actual Cost	No. of Devices	Estimated Cost	No. of Devices	Requested Cost
Grand Total							
(Enter on Line 1-D-4 of Form MBR-1)							
Funding Summary:							
General Funds							
State Support Special Funds							
Federal Funds							
Other Special Funds							
Total Funds							

SCHEDULE E SUBSIDIES, LOANS & GRANTS

MS State Univ - Center for Advanced Vehicular Systems (252-01)

MINOR OBJECT OF EXPENDITURE	(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested for FY Ending June 30, 2023
E. Other, Transfers (67000xxx-67199xxx, 67998xxx, 68500xxx-68860	0xxx, 70045xxx-70080xxx, 8000	00xxx-80500xxx)	
Cost Share on Joint Industrial/University/Federal	516,020	780,000	780,000
Fellowships		12,000	12,000
Start-up Commitments		112,879	112,879
Total	516,020	904,879	904,879
Grand Total			
(Enter on Line 1-E of Form MBR-1)	516,020	904,879	904,879
Funding Summary:			
General Funds	516,020	904,879	904,879
State Support Special Funds			
Federal Funds			
Other Special Funds			
Total Funds	516,020	904,879	904,879

NARRATIVE 2023 BUDGET REQUEST

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

The Center for Advanced Vehicular Systems (CAVS) at Mississippi State University is an interdisciplinary center comprised of engineering, research, development, and technology transfer teams focused on enhancing human and payload mobility. The CAVS activities are clustered around material science, manufacturing process modeling, computational mechanics, computational fluid dynamics, multi-scale modeling, human factors, vehicular systems engineering, design optimization, human factors and ergonomics, alternative powered systems, and autonomous vehicular systems. Research activities include efforts on life cycle costs, additive manufacturing, high strength steel research, structural integrity, systems engineering, data sciences, as well as advances in improved diagnostics, manufacturing, training systems, and computational design technologies. While CAVS projects generate timely solutions relevant to regional manufacturers, CAVS research seeks to expand knowledge that is essential for sustained economic development. Through direct involvement in various activities at CAVS, students gain valuable experience that leverages on their classroom learning.

The research groups within CAVS are dynamic with the ability to maximize the utilization of advancing technologies. In recognition that today's complex problems facing manufacturing competitiveness and product safety and reliability must be addressed by cross-disciplinary teams, CAVS researchers approach the problems from diverse viewpoints to arrive at appropriate solutions. Each group at CAVS shares a passion for helping industry realize and sustain a competitive advantage within the global economy.

In support of its mission, CAVS also offers a direct interface to manufacturers and industries throughout the state and region via the CAVS Engineering Extension, located in Canton, Mississippi. The services offered by the CAVS Engineering Extension include manufacturing plant simulation, Six Sigma, advanced maintenance engineering, lean manufacturing, facility layout, virtual reality, and quality engineering. With a staff of about 300 faculty, research staff, postdocs, and students, the engineering enterprise of the Center for Advanced Vehicular Systems is well situated to support the research needs of industry.

CAVS is continuing to serve as a regional resource for the recruiting of automotive and related industries. The recruitment of Continental Tire to the state of Mississippi was facilitated by the core competencies in research, extension, and automotive related academic prowess at CAVS. As the US economy is turning around, the manufacturing enterprise of the state of Mississippi will be in need of support from CAVS for a multitude of research, design, training, and warranty issues. CAVS has also been proven to be a leading economic development engine for the State of Mississippi. According to surveys conducted by the Manufacturing Extension Partnership of Mississippi in the 15-year period of 2006-2021, CAVS has had more than \$6.22 billion economic impact on the state and is responsible for over 6,054 jobs created or retained. In a new focus area, funds will also be used to support the transportation industry's move toward autonomous vehicles and additive manufacturing. New research and outreach activities are needed to help the state compete and to develop policies for nurturing this burgeoning industry. This support will link to efforts across the university and state agencies (e.g., MDOT, MDEQ, MDA). Because of the expanding petroleum industry in Mississippi and the rest of the country, industrial outreach efforts will also be continued to assist this growing industry which has the potential to significantly add to job growth in Mississippi.

CAVS represents a commitment by the State of Mississippi to work with and support Mississippi industry through project-based activities. The management at CAVS and the research team in general, recognize the need to generate economic development via technological and scientific discovery. This means CAVS serves as a knowledge resource for existing and future Mississippi industries. As with all academic research centers, CAVS is dependent on stable infrastructure support to ensure the best and brightest engineering talent is brought to bear on the regional growth initiatives and development of a strong R&D infrastructure to support the emerging Southern Automotive Corridor. CAVS serves as an active member of the Mississippi Manufactures Association as well as a board member of the Mississippi Automotive Manufacturers Association (MAMA). It has established a close working relationship with the Nissan assembly facility in Canton, Toyota in Blue Springs, Yokohama Tire in West Point, Taylor Machine in Louisville, Viking Range in Greenwood, Huntington Ingalls in Pascagoula, Hol-Mac Corporation in Bay Springs, and PACCAR Engines in Columbus, to name a few. CAVS faculty and staff are continuing to work closely with MDA and local economic development authorities throughout the state in recruiting new industry to the state and in supporting the existing industries. The State infrastructure funds allow CAVS to build toward its basic mission, with already much evidence of impact via an effective engineering capability to support Mississippi industry. Having access to knowledgeable researchers and providing leading edge capabilities is an important asset for the State.

Recurring State funding for CAVS is required as the foundation continues to be built via the development of the facilities, staff, and knowledge base. Current state funding is critical to supporting the infrastructure while seeding new research initiatives, student activities, and engineering extension. Further, many recent activities have helped Mississippi industry via workforce training, short

NARRATIVE 2023 BUDGET REQUEST

MS S	State Univ -	Center for	Advanced	Vehicular Sv	stems (252-01)
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Name of Agency

courses, and partnerships designed to attract federal and industrial funding. At present, the State support is providing less than 20 percent of the total CAVS operating funds. Continued leveraging of the State funding is critical to building a self-sustaining organization satisfying the obligations of CAVS to our partners, the state, and the university.

According to the most recent information, on average, Mississippi State University's salaries are approximately 80% of our SREB (Southern Regional Education Board) Peers. In order to remain competitive and retain the world class staff necessary to provide the State of Mississippi with a leading research University, MSU requests additional salary funding for FY 2023 consistent with the 1/6th SREB salary request approved by the IHL Board of Trustees. The FY 2023 request is intended to begin narrowing the average salary gap between IHL institutions and SREB. The allocation methodology to campuses will be determined by the Board at a future date.

OUT-OF-STATE TRAVEL FISCAL YEAR 2023

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

Note: All expenditures recorded on this form must be totaled and said total must agree with the out-of-state travel amount indicated for FY 2021 on Form Mbr-1, line 1.A.2.b.

Employee's Name	Destination	Purpose	Travel Cost	Funding Source
Murray, Steven	Pensacola, Florida	to receive training to become certified CPR/AED instructor for CAVS safety group	656	General Funds
Newman, Michael	Pensacola, Florida	to receive training to become certified CPR/AED instructor for CAVS safety group	56	General Funds
		Total Out of State Cost	\$ 712	•

FEES, PROFESSIONAL AND OTHER SERVICES

MS State Univ - Center for Advanced Vehicular Systems (252-01)

TYPE OF FEE AND NAME OF VENDOR		(1) Actual Expenses FY Ending June 30, 2021	(2) Estimated Expenses FY Ending June 30, 2022	(3) Requested Expenses FY Ending June 30, 2023	Fund Source
XXX Laboratory & Testing Fees					
Laboratory & Testing Fees/Testing					
Comp. Rate: 15.00/hour			2,500	2 500	General Funds
Total XXX Laboratory & Testing Fees			2,500		. General I unus
XXX OnCampus Visitor Parking Permits - Non-gated					
OnCampus Visitor Parking Permits - Non-gated/allowed visitors to					
Comp. Rate: \$1.50 per pass	No	38			General Funds
Total XXX OnCampus Visitor Parking Permits - Non-gated		38			
XXX Installation labor					
XXX Installation labor/installation of new door on dynamometer					
Comp. Rate: \$150 per hour	No	1,800			General Funds
Total XXX Installation labor		1,800			
XXX Advertising Video Production					
Video Production/created advertising vignette for new CAVS					
Comp. Rate: \$7,750 per video	No	5,000			General Funds
Total XXX Advertising Video Production		5,000			
GRAND TOTAL		6,838	2,500	2,500	

VEHICLE PURCHASE DETAILS

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

Year Model Person(s) Assigned To Vehicle Purpose/Use

Replacement Or New? Req. Cost

TOTAL VEHICLE REQUEST

VEHICLE INVENTORY AS OF JUNE 30, 2021

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Name of Agency

Vehicle	Vehicle Description	Model	Model	Person(s) Assigned To	Purpose/Use	Tag Number	Mileage on 6-30-2021	Average Miles per Year	Replacement Proposed	
Type	venicle Description	Year	Model						FY2022	FY2023

Vehicle Type: (P)assenger/(W)ork

VEHICLE POOL MEMBER LIST 2023 BUDGET REQUEST

MS	State Un	iv - Centei	for Advance	ed Vehicular S	ystems (252-01)
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PRIORITY OF DECISION UNITS FISCAL YEAR 2023

MS State Univ - Center for Advanced Vehicular Systems (252-01)

	Program Decision Unit		Object	Amount
Priority #	1			
•	Program # 1: R	Research		
		SREB Salary Increase		
			Salaries	166,501
			Totals	166,501
			General Funds	166,501
	Program # 2: P	Public Service		
		SREB Salary Increase		
			Salaries	50,337
			Totals	50,337
			General Funds	50,337

CAPITAL LEASES

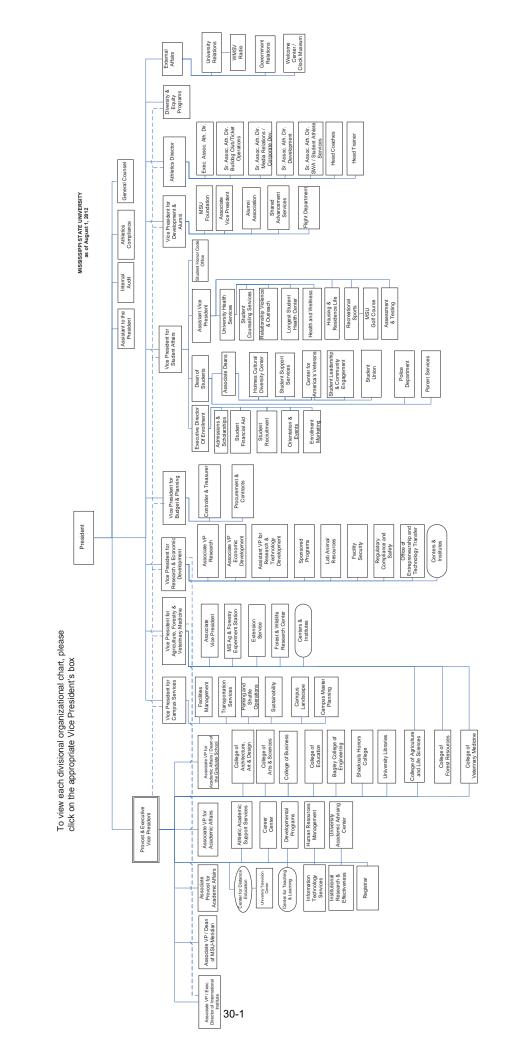
MS State Univ - Center for Advanced Vehicular Systems (252-01)

						Amou	nt of Each Pay	ment		Т	otal of Payme	nts To Be Mad	e	
	Original	Original No. of	No. of Months	Last		A	ctual FY 202	l	Est	timated FY 20	22	Rec	quested FY 20	23
VENDOR/ ITEM LEASED	Date of Lease	Months of Lease	Remaining on 6-30-21	Payment Date	Interest Rate	Principal	Interest	Total	Principal	Interest	Total	Principal	Interest	Total

Summary of 3% General Fund Program Reduction to FY 2022 Appropriated Funding by Major Object

MS State Univ - Center for Advanced Vehicular Systems (252-01)

Major Object	FY2022 General Fund Reduction	EFFECT ON FY2022 STATE SUPPORT SPECIAL FUNDS	EFFECT ON FY2022 FEDERAL FUNDS	EFFECT ON FY2022 OTHER SPECIAL FUNDS	TOTAL 3% REDUCTIONS
SALARIES, WAGES, FRINGE					
TRAVEL					
CONTRACTUAL	(134,419)				(134,419)
COMMODITIES					
OTHER THAN EQUIPMENT					
EQUIPMENT					
VEHICLES					
WIRELESS COMM. DEVS.					
SUBSIDIES, LOANS, ETC					
TOTALS	(134,419)				(134,419)



Center for Advanced Vehicular Systems Clayton T. Walden, Executive Director

Human Factors

Associate Director Reuben Burch

Materials Science Hongjoo Rhee Associate Director

Engineering Mechanics &

- Human Factors
- Product Lifecycle Biomechanics • Ergonomics
- Cyberinfrastructure Management
- Augmented Reality
 - Visualization

Athlete Engineering

Processing • Lightweight

 Materials Materials

Computational Engineering Mechanics

Tonya Stone Associate Director

- Multi-scale Modeling
 Material Models
- Theoretical Mechanics
 Computational Simulations

Experimentation Characterization

Multi-scale

- Design OptimizationUncertainty AnalysisBio-inspired
- Process Modeling

Steel Alloy Design

Materials

and Manufacturing

Bio-materials

Additive

Manufacturing • V&V

Computational

Associate Director Fluid Dynamics Shanti Bhushan

- Mesh Generation Simulation Tools
 - Thermal Mgt. Energetics
- AerodynamicsChemically reacting flow
- Multidisciplinary design
 - Fluid-structure interaction optimization

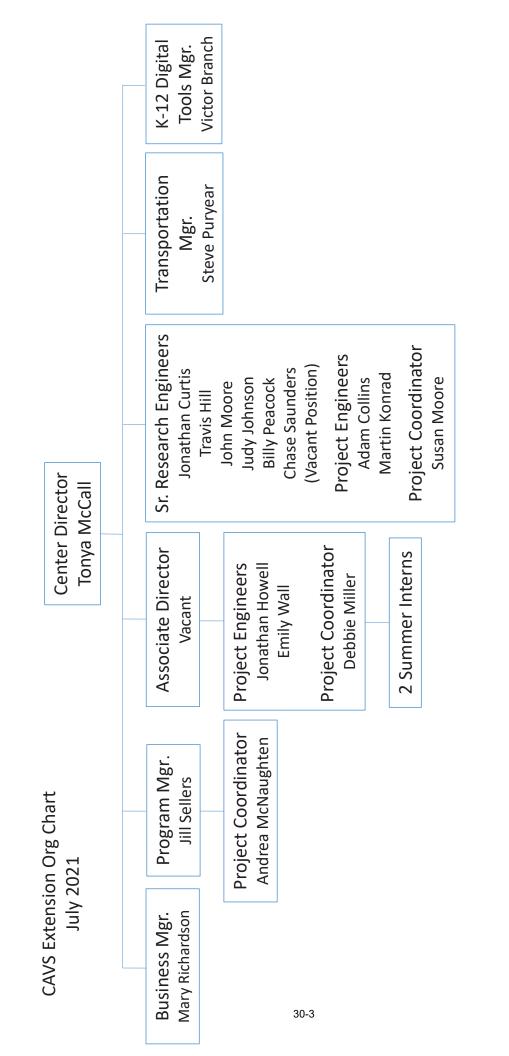
Vehicle Systems Daniel Carruth Advanced

- Technologies IC Engines Hybrid
- Dynamometer
 Noise, Vibration
 & Harshness
- Mobility

Associate Director

- Automotive
 Electronics

- Emissions
- Autonomy



BOARD OF TRUSTEES OF STATE INSTITUTIONS OF HIGHER LEARNING STATE OF MISSISSIPPI

Schedule A Salaries and Wages

Agency: MSU - CENTER FOR ADVANCED VEHICULAR SYSTEMS 252-01

	Actual E: FY Er 30-Ju	nding	Estimated FY Er 30-Ju	nding	Requii FY Er 1-Ju	nding
	FTE	Dollars	FTE	Dollars	FTE	Dollars
CURRENT POSITIONS:						
1100 - Exec, Admin & Managerial 1200 - Faculty	3.85	460,289	3.85	391,811	3.85	424,548
9 month	2.30	129,413	2.30	110,160	2.30	119,364
12 month	9.25	540,034	9.25	459,694	9.25	498,102
Other	0.00	0	0.00	0	0.00	0
Total Faculty	15.40	669,447	15.40	569,854	15.40	617,466
1300 - Professional Non-faculty	21.00	648,462	21.00	551,990	21.00	598,109
1400 - Clerical and Secretarial	17.60	198,899	17.60	169,309	17.60	183,455
1500 - Technical & Paraprofessional	5.00	149,232	5.00	127,031	5.00	137,645
1600 - Skilled Crafts	0.00	0	0.00	0	0.00	0
1700 - Services/Maintenance	0.00	0	0.00	0	0.00	0
1800 - Students TOTAL	2.00 61.00	205,428 2,331,757	2.00 61.00	174,866 1,984,861	2.00 61.00	189,477 2,150,700
TOTAL	01.00	2,551,757	01.00	1,504,001	01.00	2,130,700
NEW POSITIONS REQUIRED FOR FY 2022:					FTE	Dollars
1100 - Exec, Admin & Managerial					0.00	0
1200 - Faculty						
9 month					0.00	0
12 month					0.00	0
Other					0.00 0.00	0
1300 - Professional Non-faculty 1400 - Clerical and Secretarial					0.00	0
1500 - Technical & Paraprofessional					0.00	0
1600 - Skilled Crafts					0.00	0
1700 - Services/Maintenance					0.00	0
1800 - Students					0.00	<u>0</u>
TOTAL					0.00	0
DDOMOTIONS DEALIONMENTS						
PROMOTIONS, REALIGNMENTS, RECLASSIFICATIONS FOR FY 2022:						Dollars
1100 - Exec, Admin & Managerial						Dollars 0
1200 - Faculty						U
9 month						0
12 month						0
Other						0
1300 - Professional Non-faculty						0
1400 - Clerical and Secretarial						0
1500 - Technical & Paraprofessional						0
1600 - Skilled Crafts 1700 - Services/Maintenance						0
1800 - Students						<u>0</u>
TOTAL						0
GRAND TOTAL Salaries and Wages	61.00	2,331,757	61.00	1,984,861	61.00	2,150,700

BOARD OF TRUSTEES OF STATE INSTITUTIONS OF HIGHER LEARNING STATE OF MISSISSIPPI

Schedule A-1 Fringe Benefits

Agency: MSU - CENTER FOR ADVANCED VEHICULAR SYSTEMS 252-01

	Actual Expenses FY Ending 30-Jun-21	Estimated Expenses FY Ending 30-Jun-22	Required for FY Ending 1-Jul-23
CURRENT POSITIONS:			
3910 - Employees' Retirement Matching 3920 - SSI Matching & FICA 3930 - Workers' Compensation 3940 - Health Insurance Contribution 3950 - Group Life Insurance 3960 - Civil Service (Agriculture Units) 3970 - Unemployment Tax 3980 - Remission of Fees 3990 -Terminal Leave Expense TOTAL Fringe Benefits for Continuing Employees	390,801 160,251 8,012 133,524 2,267 0 1,728 6,599 13,884 717,066	298,296 133,065 9,766 103,827 1,953 0 1,648 34,792 27,040 610,387	323,220 144,182 10,582 112,502 2,116 0 1,786 37,699 29,299 661,386
ESTIMATED FRINGE BENEFITS REQUIRED FOR NEW POSITIONS FOR FY 2022:			
3910 - Employees' Retirement Matching 3920 - FICA Matching 3930 - Workers' Compensation 3940 - Health Insurance Contribution 3950 - Group Life Insurance 3960 - Civil Service (Agriculture Units) 3970 - Unemployment Tax 3980 - Remission of Fees TOTAL Fringe Benefits for New Positions FRINGE BENEFITS FOR PROMOTIONS,			0 0 0 0 0 0 0 0
REALIGNMENTS, RECLASSIFICATIONS FOR FY 2022:			
3910 - Employees' Retirement Matching 3920 - FICA Matching 3930 - Workers' Compensation 3940 - Health Insurance Contribution 3950 - Group Life Insurance 3960 - Civil Service (Agriculture Units) 3970 - Unemployment Tax 3980 - Remission of Fees TOTAL Fringe Benefits for Promotions, etc.			0 0 0 0 0 0 0 0
GRAND TOTAL Fringe Benefits	717,066	610,387 610,388	661,386 661,387
SUBTOTAL SALARIES, WAGES & FRINGE BENEFITS LESS VACANCY RATE TOTAL SALARIES, WAGES & FRINGE BENEFITS	3,048,823 NA 3,048,823	2,595,248 NA 2,595,248	2,812,086 NA 2,812,086

Agency Revenue Source Report - FY21 Data As Required by HB 831, 2015 Legislative Session

And SB 2387, 2016 Legislative Session

Agency Name	MS State Univ - Center for Advanced Vehice	ular Systems (252-01)
Budget Year	2021	
State Support Sources General Funds	Amount Received \$ 4,239,480	
State Support Special Funds Education Enhancement Funds Health Care Expendable Funds Tobacco Control Funds Capital Expense Funds Budget Contingency Funds Working Cash Stabilization Reserve Funds	\$ 142,782	
Special Funds Sample Special Fund #1 Sample Special Fund #2 Add Rows for Additional Special Funds List all Federal Funds at its most specific le	Amount Received evel, such as an office or division, not the Amount Received	federal department. Action or results promised in order to receive funds
Sample Federal Fund #1	Fund Summaries should be available Od	tober 1, 2021.
Sample Federal Fund #2		
federal agency or subdivision thereof		
Add Rows for Additional Special Funds		
Revenue from Tax, Fine or Fee Assessed		
Sample Tax, Fine, Fee #1	Amount Assessed	N/A
Copy Entire Section to Add New Item	Amount Collected	Fund Summaries should be available October 1, 2021.
	Authority to Collect	Board Policy # 702.03, Approval of Tuition, Fees, and other student charges.
	Method of Determining Assessment	N/A
	Method of Collection	Board Policy # 702.03, Approval of Tuition, Fees, and other student charges.
	Amt. & Purpose for which Expended	_
	Amount	Purpose 2021
	Fund Summaries should be available Oo	Tober 1, 2021.
	Amount Transferred to General Fund	
	Authority for Transfer to General Fund	
	Amount Transferred to Another Entity	
	Authority for Transfer to Other Entity	
	Name of Other Entity	
	Fiscal Year-Ending Balance	