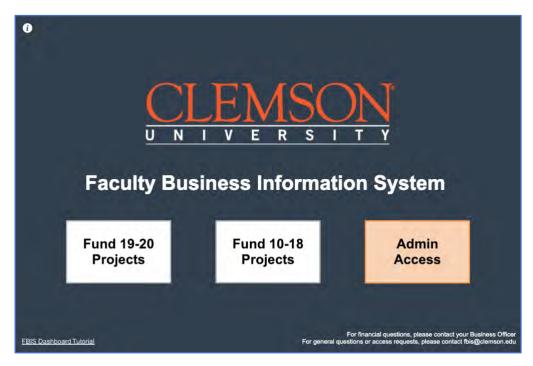
Tableau Dashboard Tutorial:Faculty Business Information Systems (FBIS) Dashboard

It is best practice to review project direct expenditures after the monthly close period. The system captures journal entries that have been approved through Budget Check and are posted to the General Ledger. If you do not see the financials you would expect, it is possible the project is being held up in Budget Check. Please reach out to your business officer for more information. Clemson's Monthly Closing Schedule can be found on the Controller's webpage. https://www.clemson.edu/finance/controller/schedules/

1. Access tool at https://fbis.app.clemson.edu/

CL	EMSON
	VERSITY
Username	

- 2. Enter your Clemson University credentials (username without the email attached)
- 3. After logging in, you will see the FBIS Main Page.



- Click the Fund 19-20 or Fund 10-18 buttons to see a list of All User Projects
 For a list of Fund descriptions please visit the CUBS Chart of Accounts
- For financial questions, please contact your Business Officer
- For general questions or Admin Access requests, please contact fbis@clemson.edu
- Access this FBIS Dashboard Tutorial in the future by clicking the link in the bottom left

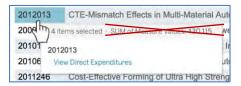
- 4. Fund 19 & 20 All Projects View In the top table, Principal Investigators (PI's) will be able to see all of their associated Fund 19-20 projects, along with a snapshot of their budgets, actuals (expenses + encumbered), project balances, and project life percent. Data is refreshed daily. These are direct expenditures only, and **do not include indirect** accounts
 - Projects that you manage will appear at the top of the table, while your CO-PI projects appear at the bottom
 - Use the Status dropdown menu to show/hide Active or Inactive projects.
 - If a project is in orange, it is within 90 days of the project End Date. Hover for info.
 - Click on the Home icon (top right) to return to the Main Page

					All Projects	5		
Fune	d 19 & 20	Project List	"Now includes CO-PI Projects			(Status: Acti	
Click on	a Project to vie	ew Direct Expenditures by A	Account		*Fund	l 20 financials exc		A
Status	Project ID	Manager Name	Title	Beg-End Date	Budget	Actuals (Exp + Enc)	Project Balance	Project Life %
Active	2009850	Doe, John	Impact of Prescribed Fire on Polycyclic Aromatic Hyd	1/1/2014 - 12/31/2018	\$347,907	\$349,655	(\$1,748)	100.0%
PI	2010366	Doe, John	Ecological Stress in Coastal Ecosystems: Exploring t.,	9/18/2014 - 9/18/2017	\$33,386	\$33,386	\$0	100.0%
	2010822	Doe, John	Collaborative Research: Halocarbon Biogeochemistr	8/1/2015 - 7/31/2019	\$221,769	\$148,987	\$72,782	88.1%
	2012546	Doe, John	Storage, Reactivity, and Bioavailability of Mercury in	6/1/2018 - 5/31/2022	\$403,092	\$53,415	\$349,677	17.2%
ĺ		Conner,William H	Retreat of Tidally Influenced Freshwater Forested W	5/15/2014 - 5/14/2019	\$170,210	\$154,557	\$15,653	94,7%
O-PI		Karanfil,Tanju	Forest Watershed Mgmt Practices & DW Quality	9/1/2015 - 8/31/2019	\$717,267	\$649,747	\$67 520	86
	-	O'Halloran, Thomas L	MRI: Acquisition of a Soil Greenhouse Gas Flux Mea	10/1/2018 - 9/30/2021	\$230,597	\$230,463	10 days u	ntil Project End I
Addit To add p enter Pro nto the b	ject ID	jects:						

- a) Add Projects to add projects, simply type in the Project ID into the box, hit enter, and click the check box that pops up.
 - To **remove** it, hover over the added ID and click the "x" that pops up
 - Can add unlimited number of projects, just scroll down to see those out of the view

Additional I	Projects:						2000
To add projects,	Project ID	Project Title	Begin Date	End Date	Manager Name	Status	Project Life %
type Project ID into the box:	2009797	Broadening Participation in Visualization Workshop	10/23/2013	6/1/2014	Byrd, Vetria Laverne	Inactive	100.0%
2009797 + p 2009797 X	հუ	*For info on savi	ing added pro	ojects, s	ee "Saving the \	/iew" on pa	age 8

b) To Drill Down to more financial detail, in either table, click on the Project ID to bring up the menu and then click View Direct Expenditures. (Ignore the SUM of Measure Values info).



- 5. Direct Expenditures View this shows each project's overall Budget, Actuals (expenditures and encumbered), % of Budget Spent, and Project Balance, along with expenditure detail by account.
 - Hover over the Legend button to see definitions and more detail.
 - Throughout the dashboard, you can use the buttons in the navigation bar (Ex: "All Projects") to go back to previous pages.

								All Projects	in Di	rect Expendit	ures	<u>CL</u>	
C		Project ID	Manager Project Tit	le				E	Begin Date	End Date	Projec	ct Life %	Status
Summ	ary:	2012013	John Doe Clemson	n Universi	ty Resea	rch Proj	ject	4	5/1/2017	4/30/2019	56.9	%	Active
lover to se	e more in Dept ID		Project ID to drill to Payroll and Acct. Description	Journal Entr	ies .	ical View to Budge	•		of Budget Spe	ent		Project Ba	lance
	Total 0926	UCLASS GRAD WAGES	Unclassified Salaries Graduate Assistant Salaries Salaries & Wages	-		•	1	34.3% 24.2% 32.5%		179.2%	(\$56)	\$41	\$4,526 \$4,982
2012013		FRINGE SPNGAD TRAVEL	Employer Fringe Benefits Sponsored Program GAD Travel		•	I		35.5% 17.7% 50.1%				\$610 \$709	\$4,107

Legend & Definitions:

Actuals to Budget:

Actuals (Expended + Encumbered): what was spent or encumbered on the account

Budget: predetermined budget set for each account and overall project

• Ideal Spend: calculates the amount that should have been spent as of today, relative to project life. Formula: Budget * Project Life Percent

% of Budget Spent:

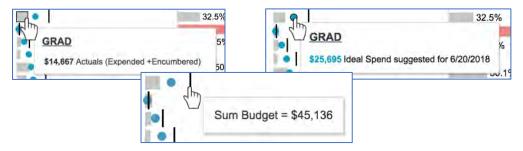
The "target" Percent Budget Spent should equal the Project Life Percent

On Track: the expenditures are in a good position relative to project life percent Ahead of Schedule: the expenditures and associated Percent of Budget Spent are 50% above the Project Life Percent OR the project is **Over Budget** (100% is the Budget limit, anything over will turn red)

Behind Schedule: the expenditures and associated Percent of Budget Spent are 50% below the Project Life Percent

***Note** – The bar colors correspond to the rate of spending relative to project life, therefore while some accounts may be colored red or yellow, it is understood that not all expenditures are spent evenly over the project life (some may require more upfront or back-end expenditures).

- Hover over the graphs to see additional details on the account and overall project



a) You can also see an alternative view of information by clicking the dropdown menu and selecting **Tabular View**

1.		Expendi	tures roject ID to drill to Payroll and Journ	al Entries Tabular View	- Chm-				Legend
Project ID	Dept II	Account	Acct. Description	Budget	Expended	Encumbered	Ideal Spend	% of Budget Spent	Project Balance
	Total			\$3,397	\$73,776	\$0	\$1,934	34.3%	\$2,232
	0926	UCLASS	Unclassified Salaries	\$28,076	\$10,896	\$0	\$15,983	24.2%	\$21,269
		GRAD	Graduate Assistant Salaries	\$2,558	\$14,667	\$0	\$1,456	32.5%	\$1,727
		WAGES	Salaries & Wages	\$291	\$6,424	\$0	\$165	179.2%	(\$230)
2012013		FRINGE	Employer Fringe Benefits	\$2,484	\$6,215	\$0	\$1,414	35.5%	\$1,603
		SPNGAD	Sponsored Program GAD	\$14,035	\$5,120	\$0	\$7,990	17.7%	\$11,546
		TRAVEL	Travel	\$3,729	\$17,529	\$0	\$2,123	50.1%	\$1,861
		OTHER	Other Operating Expenses	\$1,799	\$12,925	\$0	\$1,024	32.3%	\$1,217

b) Click on the Project ID to bring up a menu to drill down to View Payroll Detail or View Journal Entries



- 6. **Payroll Detail View –** this view of expenditures includes UCLASS, GRAD, WAGES, and FRINGE by person paid on the specific project.
 - **Table 1** shows each person paid on the project.
 - Click on a person's name to bring up **Table 2** to see the accounts they have been paid on.
 - On **Table 2**, hover above the Account Description and click the [+] that appears to see all the associated journal entries along with the entry date and journal ID. It is ordered by year, so your most recent entries appear at the top.
 - Again, you can **navigate back** to previous pages by clicking on the "All Projects," "Direct Expenditures", or Home buttons at the top of the screen.

		nformation Syste	\leq	All P	rojects	Direct Expenditures	Payn	oli Detail	
	Project ID	Manager Name	Title				Status	Beg-End Date	Project Life %
Summary:	2012345	Doe, John	CTE-Misr Structure			ti-Material Automotive	Active	5/1/2017 - 4/30/2019	88.8%
I. Project Pa	yroll by P	erson	Lances of the second		count Det				
Click on a person to	see account d	etail	Hover above	the Acco	ount Descriptio	n and click the plus icon [+] tha	t appears to dr	ill to journal entries	
Grand Total		anatora.	Grand Tot	al		□ ∩			\$45,29
Abu-Farha Fadi	Kamal o	\$45,296	2019YR	5053	Uclass Sala	ries - St mer Pay		Account Total	\$18,26
Agha,Akshat	- C	m (T					8/15/2018	HRE0926F09	\$5,70
Alturk, Rakan	1	35.7.00					to field frame with	HRE0926FN9	\$6,84
Gopinath Kanna	dasan.Fnu	5.8-81					7/13/2018	HRE0926FM9	\$5,7
Goyal, Abhishek				5220	Pooled Frin	ges - 9 Month Emp		Account Total	\$6,1
Raveendran,Ara	vindhan	1.2						HRE0926F09	\$1,93
indiana in a second second	The second second							HRE0926FN9	\$2,30
							7/13/2018	HRE0926FM9	\$1,93
			2018YR	5053	Uclass Sala	ries - Summer Pay		Account Total	\$15,92
								HRE0926FL9	\$5,0
								HRE0926EO9 HRE0926EN9	\$5,1
				6200	Bested Poly	and D Marill Prov	(/31/2017	Account Total	\$5,7
				5220	Fooled Frin	ges - 9 Month Emp	S/20/2042	HRE0926FL9	\$4,9
								HRE0926EO9	\$1,5 \$1,6
								HRE0926EN9	\$1,0
							. no mad li		
W Payroll Load: 2/7									

- 7. **Project Journal Entries View** this includes subtotals of direct expenditures by department and account, along with individual journal entries on the account.
 - **Table 1** displays subtotals of direct expenditures by department and account.
 - Click on an account in **Table 1** to bring up **Table 2** to see all the individual journal entries submitted for that account. It is ordered so your most recent entries appear at the top of each subaccount.
 - You may have the option to scroll down in **Table 2** to see more information that is out of the view.

					All F	Projects Direc	t Expenditures	Journal Entries		LEMSON
		oject ID	Manager	Project Title			Begin Date	End Date	Project Life %	Status
Summa		011054	John Doe	Clemson Univ	ersity Researc	h Project	10/19/2015	10/31/2020	53.0%	Active
(11) (11) (11) (11) (11) (11) (11) (11)	1000		Totals by see Journal E	Account		2. Project Jour	rnal Entries			
			Acct. Desc			Account Desc.	Day of Jrnl Ent	= .lournal ID	Jrnl Ref #	
Grand Tot		Account	Acct. Dest	anpuon	190,003	Grand Total	Day of offit Ent.	- oounnario	on iter #	\$11,89
		Total			\$94,0031	TOS:Lodging	January 29, 2018	APP0674962	H0291041	\$1,05
		CLASS	Classified S	Salaries	50.		November 6, 2017	APP0670387	H0286273	\$97
		UCLASS	Unclassifie	d Salaries	\$2,922		August 3, 2017	APP0663487	H0280642	\$90
		WAGES	Salaries &	Wages	\$43,461		April 7, 2017	APP0653155	H0272649	\$93
2011054	0926	FRINGE	Employer F	ringe Benefits	\$16,531		February 13, 2017	APP0649551	H0269064	\$30
		PARTSP	Participant	Support Cost	\$1,063		February 6, 2017	APP0649005	H0268603	\$79
		TRAVEL	Travel	h	\$11,891	TOS:Meals Busine	ss January 29, 2018	APP0674962	H0291038	\$6
		OTHER	Other Oper	ating Expe	\$18,133	Related			H0291040	\$6
									H0291041	\$6
							November 6, 2017	APP0670387	H0286273	\$7
							August 3, 2017	APP0663487	H0280642	\$19
							April 7, 2017	APP0653155	H0272649	\$3
							February 13, 2017	APP0649551	H0269064	\$64
							February 6, 2017	APP0649005	H0268603	\$16
						TOS:Mileage	January 29, 2018	APP0674962	H0291041	\$48
						Personal Reimburg	November 6, 2017	APP0670387	H0286273	\$50

8. Fund 10-18 Views – These projects are set up very similarly to the Fund 19-20, with the same drill down functions and view capabilities. The main difference is that since these are annualized budgets, you can select and change the Year/Budget Period to view.

					All Projects		
Project List	(johndoe)	Click on a Project ID to see Direct Expenditu	ures by Account		Budget	Period 2019YR	
(All)	Project ID	Project Title			Budget	Actuals (Exp + Enc)	Project Balance
Active	1000001	PSA One-Time Funding			\$79,616	\$2,104	\$77,512
	1000002	PSA Speical Allocations			\$141,253	\$0	\$141,253
	1000003	PSA Speical Allocations			\$547,086	\$0	\$547,086
	1000532	Admin of dept progr			\$4,743,610	\$305,792	\$4,437,818
	1070053	Startup-Nathan Smith			\$0	\$19	(\$19
	1100003	0144 SCAFRS & CUCES Dir			\$12,246	\$0	\$12,246
	1200000	Default			\$12,743,431	\$0	\$12,743,43
	1200220	PSA General Revenues			\$0	\$1,248	(\$1,248
	1201156	PSA FB-RESCH			\$0	(\$2,714)	\$2,714
	1280000	F&A Holding			\$3,521,810	\$0	\$3,521,810
	1401089	PSA & ECDEV General Revenue			\$5.847	\$0	\$5.847
Additional Pro	ojects:	PSA & ECDEV General Revenue Project to view list of Budget Periods Descr	Manager Name		3) Clicl	\$0 k on a Budget Period i et Period	
1200091 + 0	1200091	Short Course & Conf RESCH	Doe, Jane	Active	2019)		
1200091	- Christian - Chri)			2018) 2017) 2016) 2015)	2018YR View Direct Expenditures	

a) For Funds 10-18, there is an additional step in the bottom table. Like Fund 19-20, to add projects, type in the Project ID into the box, hit enter, and click the check box that pops up. From there click on the Project ID to bring up the Budget Period history. Finally, select a Budget Period to bring up the menu to View Direct Expenditures for that year.

TIPS:

If the site has been idle a while in your browser and/or the drill downs are not acting as expected, you may need to refresh the site from your browser and restart from the Main Page

Avoid using browser back/forward buttons. Use navigation within the interface.

- **9.** Saving the View To save any projects you have manually added, you will need to create a custom view. Otherwise, the next time you log in, FBIS will revert to the original view and not display any projects you've added in the bottom tables. Use the following steps:
 - a) Refresh the FBIS website in your Browser so it directs you back to the Main Page
 - a. (NOT the refresh button in tableau Refresh, this will only refresh the current view you are on)
 - b) Click the Fund 20 button and add any desired projects (refer to step 4a)
 - c) Click the HOME icon to return to the Main Page
 - d) Click the Fund 10-19 button and add any desired projects (refer to step 4a)
 - e) Click the HOME icon to return to the Main Page again. If one of the Fund buttons are highlighted blue, just click it again to unselect it.

***You will need to complete all of the above steps before saving the view that way each section is updated properly.

f) At the bottom of the screen, click the View Original icon to bring up the Custom Views dialog box.



g) From there, type in a Name for the view, check the box next to "Make it my default", and click Save. You can also add multiple custom views and change the default from this menu.

John Doe's Project List	Save
✓ Make it my default	Make it public
My Views	
	Nothing saved yes
	Nothing saved yea
) Other Views	Nothing saved ye

10. Download the data – this option is available in the All Projects, Direct Expenditures, Payroll Detail, and Project Journal Entries views. At the bottom of the screen, click the Download icon.

📊 View: Original 🗘 Alert 🖉 Edit 🗠	Share 🖵 Download	Full Screen
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***Be sure you are clicked into the graph/table you want to download. If not, the options will be greyed out or unavailable.

Download
Select your file format.
Image
Data
Crosstab
PDF
Tableau Workbook
Cancel

Image: Downloads a direct "screenshot" of the view. Therefore, you will not be able to see any projects that are hidden/you must scroll down to.

Data: Generates a pop-up window where you can view the raw data for a single row, or the full data table. From here you have the option to download the info as a text file.

- Due to the nature of the FBIS application tool (Tableau), you may see columns of data that are not relevant and were used for formatting purposes, just ignore these

Crosstab: *Recommended format. Downloads the data as a .csv file you can utilize in excel.

PDF: Generates a pop-up window with the following options:

- Include:
 - **This View** will download a direct "screenshot" of the view. Therefore, you will not be able to see any projects that are hidden/you must scroll down to.
 - Specific sheets from this dashboard *Recommended format. Best to use when you have many lines of data that you must scroll through in the view. It will download a pdf of any specific table and its data shown within the view. (Therefore, if you have not clicked to generate Table 2 and Table 3 on the Payroll Detail view, those pdf sheets will download blank). Example sheets for download:
 - List of All Projects
 - Add Projects
 - Direct Expenditures GRAPH
 - Direct Expenditures TEXT
 - Payroll High Level
 - Payroll Detail
 - Payroll Journal Entries
 - Journal Summary
 - Journal Entries
 - Specific sheets from this workbook will download direct "screenshots" of all the views in the tool. Therefore, you will not be able to see any projects that are hidden/you must scroll down to.
- Can also adjusting Scaling, Paper Size, and Orientation