

U.S. CMS UPGRADES FOR THE HL-LHC (CMS-MREFC Upgrade) effective 4/1/2020 (pre award status right now)							Award funds
Task Code	WBS	Account	Sub-Account	Universities	Departments/ Awarded	Notes: Period 4/1/2020 - 9/30/2022	updated 2/23/2022
Project Office & Software & Computing							Ryd PI Approval
	YR1 – 4/1/20 to 9/30/20	U55-8494					
			PM	Cornell			
			Fpix	Cornell			
			Trig	Cornell			
	Contingency	U55-8497		Cornell			
	FAB	U55-8498		Cornell			
	YR2 – 10/1/20 to 9/30/21	U55-8800		Cornell			
			PM	Cornell			
			Fpix	Cornell			
			Trig	Cornell			
	Contingency	U55-8820		Cornell			
	FAB	U55-8821		Cornell			
	YR3 – 10/1/21 to 9/30/22	U55-8801		Cornell			
			PM	Cornell			
			Fpix	Cornell			
			Trig	Cornell			
	Contingency	U55-8822		Cornell			
	FAB	U55-8823		Cornell			
	YR4 – 10/1/22 to 9/30/23	U558802		Cornell			
			PM	Cornell			
			Fpix	Cornell			
			Trig	Cornell			
	Contingency	U558824		Cornell			
	FAB	U558825		Cornell			
	YR5 – 10/2/23 to 9/30/24	U558803		Cornell			
			PM				
			Fpix				
			Trig				
	Contingency	U558826					
	FAB	U558827					
	YR6 – 10/1/24 to 9/30/25	U558804		Cornell			
			PM				
			Fpix				
			Trig				
	Contingency	U558828					
	FAB	U558829					
	YR7 – 10/1/25 to 3/31/26	U558805		Cornell			
			PM				
			Fpix				
			Trig				
	Contingency	U558830					
	FAB	U558831					
PM	Yr1	U55-8530		SUNY Buffalo			
	Yr2	U55-8535		The Ohio State University			
	Yr3	U55-8540					
	Yr4	U55-8545					
	Yr5	U55-8550					
	Yr6	U55-8555					
	Yr7	U55-8560					
Fpix	Yr1	U55-8531		Boston University			
	Yr2	U55-8536		Catholic University of America			
	Yr3	U55-8541		University of Colorado			
	Yr4	U55-8546		University of Illinois - Chicago			
	Yr5	U55-8551		Kansas State University			
	Yr6	U55-8556		University of Kansas			
	Yr7	U55-8561		University of Nebraska			
				The Ohio State University			
				Purdue University			
				Rice University			
				University of Tennessee Knoxville			
				Vanderbilt University			
Muons	Yr1	U55-8532		Florida Inst of Technology			
	Yr2	U55-8537		Northeastern University			
	Yr3	U55-8542		The Ohio State University			
	Yr4	U55-8547		Rice University			
	Yr5	U55-8552		Texas A&M			
	Yr6	U55-8557		UC Davis			
	Yr7	U55-8562		UCLA			
				Wayne State University			
				University of Wisconsin-Madison			
				UCSB			
TrigDAQ	Yr1	U55-8533		Boston University			

	Yr2	U55-8538		University of Colorado					
	Yr3	U55-8543		University of Florida					
	Yr4	U55-8548		Northeastern University					
	Yr5	U55-8553		Northwestern University					
	Yr6	U55-8558		Notre Dame					
	Yr7	U55-8563		The Ohio State University					
				Rutgers University					
				Texas A&M					
				UCLA					
BCAL	Yr1	U55-8534		University of Maryland					
	Yr2	U55-8539		University of Minnesota					
	Yr3	U55-8544		Northeastern University					
	Yr4	U55-8549		Notre Dame					
	Yr5	U55-8554		University of Virginia					
	Yr6	U55-8559							
	Yr7	U55-8564							
Inst Code	Institution	L2 Area	CTC	CTC description	Account	Sub Acct	Sub Object	Fiscal Year	CAM
CN	Cornell University	PM	402.03.400091	PM:Project Office - NSF - Labor	U55-8494/8800/8801	PM	031	FY2020	Anders Ryd
CN	Cornell University	PM	402.03.400092	PM:Project Office - NSF - M&S	U55-8494/8800/8801	PM	032	FY2020	Anders Ryd
CN	Cornell University	PM	402.03.400093	PM:Project Office - NSF - Travel	U55-8494/8800/8801	PM	033	FY2020	Anders Ryd
CN	Cornell University	PM	402.03.400094	PM:Project Office - NSF - COLA	U55-8494/8800/8801	PM	034	FY2020	Anders Ryd
CN	Cornell University	PM	402.05.400092	PM:Common Fund - NSF - M&S	U55-8494/8800/8801	PMOFF	052	FY2020	Anders Ryd
CN	Cornell University	FP	402.72.400091	TFPX:Management - Labor	U55-8498/8821/8823	FPIX	721	FY2020	Karl Ecklund
CN	Cornell University	FP	402.72.400092	TFPX:Management - M&S	U55-8494/8498,8800/	FPIX	722	FY2020	Karl Ecklund
CN	Cornell University	FP	402.72.400093	TFPX:Management - Travel	U55-8494/8800/8801	FPIX	723	FY2020	Karl Ecklund
CN	Cornell University	FP	402.73.400191	TFPX:Sensors - Labor	U55-8498/8821/8823	FPIX	731	FY2020	Stephen Wagner
CN	Cornell University	FP	402.73.400192	TFPX:Sensors - M&S	U55-8498/8821/8823	FPIX	732	FY2020	Stephen Wagner
CN	Cornell University	FP	402.73.400193	TFPX:Sensors - Travel	U55-8494/8800/8801	FPIX	733	FY2020	Stephen Wagner
CN	Cornell University	FP	402.73.400291	TFPX:ROCs - Labor	U55-8498/8821/8823	FPIX	7R1	FY2020	Stephen Wagner
CN	Cornell University	FP	402.73.400292	TFPX:ROCs - M&S	U55-8498/8821/8823	FPIX	7R2	FY2020	Stephen Wagner
CN	Cornell University	FP	402.73.400391	TFPX:SRAs - Labor	U55-8498/8821/8823	FPIX	7S1	FY2020	Julia Thom
CN	Cornell University	FP	402.73.400392	TFPX:SRAs - M&S	U55-8498/8821/8823	FPIX	7S2	FY2020	Julia Thom
CN	Cornell University	FP	402.75.400391	TFPX:Electronics Power - Labor	U55-8498/8821/8823	FPIX	7E1	FY2020	Will Johns
CN	Cornell University	FP	402.75.400392	TFPX:Electronics Power - M&S	U55-8498/8821/8823	FPIX	7E2	FY2020	Will Johns
CN	Cornell University	FP	402.75.400591	TFPX:Electronics Test - Labor		FPIX	7L1	FY2020	Andrew Ivanov
CN	Cornell University	FP	402.75.400592	TFPX:Electronics Test - M&S		FPIX	7L2	FY2020	Andrew Ivanov
CN	Cornell University	FP	402.76.400091	TFPX:Mechanics - Labor	U55-8498/8821/8823	FPIX	761	FY2020	James Alexander
CN	Cornell University	FP	402.76.400092	TFPX:Mechanics - M&S	U55-8494/8498,8800/	FPIX	762	FY2020	James Alexander
CN	Cornell University	FP	402.76.400093	TFPX:Mechanics - Travel	U55-8494/8800/8801	FPIX	763	FY2020	James Alexander
CN	Cornell University	TD	402.92.400091	Trigger:Management - Labor	U55-8494/8800/8801	TRIG	921	FY2020	
CN	Cornell University	TD	402.92.400093	Trigger:Management - Travel	U55-8494/8800/8801	TRIG	923	FY2020	Keith Ulmer
CN	Cornell University	TD	402.94.400092	Trigger:Muon Trigger - M&S	U55-8498/8821/8823	TRIG	942	FY2020	
CN	Cornell University	TD	402.97.400091	Trigger:Track Trigger - Labor	U55-8498/8821/8823	TRIG	971	FY2020	Peter Wittich
CN	Cornell University	TD	402.97.400092	Trigger:Track Trigger - M&S	U55-8494,8800/8821,	TRIG	972	FY2020	Peter Wittich
CN	Cornell University	TD	402.97.400093	Trigger:Track Trigger - Travel	U55-8494/8800/8801	TRIG	973	FY2020	Peter Wittich
CN	Cornell University	TD	402.97.400094	Trigger:Track Trigger - COLA	U55-8494/8800/8801	TRIGOFF	974	FY2020	Peter Wittich
						TBD when approved			
SU	SUNY Buffalo	PM	402.03.400093	PM:Project Office - NSF - Travel	U55-8530/8535/8540		20686 033	FY2020/21/22	Anders Ryd
OS	The Ohio State University	PM	402.03.400093	PM:Project Office - NSF - Travel	U55-8530/8535/8540		20681 033	FY2020/21/22	Anders Ryd
UV	University of Virginia	BC	402.32.400091	BCAL:Management - Labor	U55-8534/8539/8544		20691 321	FY2020/21/22	Colin Jessop
ND	Notre Dame	BC	402.32.400093	BCAL:Management - Travel	U55-8534/8539/8544		20664 323	FY2020/21/22	Colin Jessop
MA	University of Maryland	BC	402.32.400093	BCAL:Management - Travel	U55-8534/8539/8544		20667 323	FY2020/21/22	Colin Jessop
UV	University of Virginia	BC	402.32.400093	BCAL:Management - Travel	U55-8534/8539/8544		20691 323	FY2020/21/22	Colin Jessop
NEU	Northeastern University	BC	402.33.400291	BCAL:Frontend and Links - Lab	U55-8534/8539/8544		20665 331	FY2020/21/22	Colin Jessop
ND	Notre Dame	BC	402.33.400291	BCAL:Frontend and Links - Lab	U55-8534/8539/8544		20664 331	FY2020/21/22	Colin Jessop
ND	Notre Dame	BC	402.33.400292	BCAL:Frontend and Links - M&S	U55-8534/8539/8544		20664 332	FY2020/21/22	Colin Jessop
NEU	Northeastern University	BC	402.33.400292	BCAL:Frontend and Links - M&S	U55-8539/8544		20665 332	FY2021/22	Colin Jessop
NEU	Northeastern University	BC	402.33.400293	BCAL:Frontend and Links - Travel	U55-8534/8539/8544		20665 333	FY2020/21/22	Colin Jessop
ND	Notre Dame	BC	402.33.400293	BCAL:Frontend and Links - Travel	U55-8534/8539/8544		20664 333	FY2020/21/22	Colin Jessop
NEU	Northeastern University	BC	402.33.400294	BCAL:Frontend and Links - COLA	U55-8534/8539/8544		20665 334	FY2020/21/22	Colin Jessop
UV	University of Virginia	BC	402.33.400391	BCAL:Backend Board - Labor	U55-8534/8539/8544		20691 3B1	FY2020/21/22	Bill Hirosky
UV	University of Virginia	BC	402.33.400392	BCAL:Backend Board - M&S	U55-8534/8539/8544		20691 3B2	FY2020/21/22	Bill Hirosky

UV	University of Virginia	BC	402.33.400393	BCAL:Backend Board - Travel	U55-8534/8539/8544	20691	3B3	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.33.400491	BCAL:Trigger Concentrator - Labor	U55-8534/8539/8544	20664	3T1	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.33.400492	BCAL:Trigger Concentrator - M&S	U55-8534/8539/8544	20664	3T2	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.33.400493	BCAL:Trigger Concentrator - Travel	U55-8534/8539/8544	20664	3T3	FY2020/21/2	Bill Hirosky
MN	University of Minnesota	BC	402.33.400591	BCAL:Clock and Control - Labor	U55-8534/8539/8544	20663	3C1	FY2020/21/2	Bill Hirosky
MN	University of Minnesota	BC	402.33.400592	BCAL:Clock and Control - M&S	U55-8534/8539/8544	20663	3C2	FY2020/21/2	Bill Hirosky
MN	University of Minnesota	BC	402.33.400593	BCAL:Clock and Control - Travel	U55-8534/8539/8544	20663	3C3	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.33.400691	BCAL:Full Prototype - Labor	U55-8534/8539/8544	20664	3P1	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.33.400692	BCAL:Full Prototype - M&S	U55-8534/8539/8544	20664	3P2	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.33.400693	BCAL:Full Prototype - Travel	U55-8534/8539/8544	20664	3P3	FY2020/21/2	Bill Hirosky
ND	Notre Dame	BC	402.34.400091	BCAL:HCAL - Labor	U55-8534/8539/8544	20664	341	FY2020/21/2	Alberto Bellon
MA	University of Maryland	BC	402.34.400091	BCAL:HCAL - Labor	U55-8534/8539/8544	20667	341	FY2020/21/2	Alberto Bellon
ND	Notre Dame	BC	402.34.400092	BCAL:HCAL - M&S	U55-8534/8539/8544	20664	342	FY2020/21/2	Alberto Bellon
ND	Notre Dame	BC	402.34.400093	BCAL:HCAL - Travel	U55-8534/8539/8544	20664	343	FY2020/21/2	Alberto Bellon
RI	Rice University	FM	402.52.400091	Muon:Management - Labor	U55-8532/8537/8542	20685	521	FY2020/21/2	Alexi Safonov
TAM	TAMU	FM	402.52.400091	Muon:Management - Labor	U55-8532/8537/8542	20669	521	FY2020/21/2	Alexi Safonov
UV	University of Virginia	FM	402.52.400091	Muon:Management - Labor	U55-8532/8537/8542	20691	521	FY2020/21/2	Alexi Safonov
UW	University of Wisconsin-Madi	FM	402.52.400091	Muon:Management - Labor	U55-8532/8537/8542	20672	521	FY2020/21/2	Alexi Safonov
NEU	Northeastern University	FM	402.52.400092	Muon:Management - M&S	U55-8532/8537/8542	20665	522	FY2020/21/2	Alexi Safonov
TAM	TAMU	FM	402.52.400092	Muon:Management - M&S	U55-8532/8537/8542	20669	522	FY2020/21/2	Alexi Safonov
NEU	Northeastern University	FM	402.52.400093	Muon:Management - Travel	U55-8532/8537/8542	20665	523	FY2020/21/2	Alexi Safonov
RI	Rice University	FM	402.52.400093	Muon:Management - Travel	U55-8532/8537/8542	20685	523	FY2020/21/2	Alexi Safonov
TAM	TAMU	FM	402.52.400093	Muon:Management - Travel	U55-8532/8537/8542	20669	523	FY2020/21/2	Alexi Safonov
UV	University of Virginia	FM	402.52.400093	Muon:Management - Travel	U55-8532/8537/8542	20691	523	FY2020/21/2	Alexi Safonov
UW	University of Wisconsin-Madi	FM	402.52.400093	Muon:Management - Travel	U55-8532/8537/8542	20672	523	FY2020/21/2	Alexi Safonov
OS	The Ohio State University	FM	402.53.400191	Muon:CSC ODMB - Labor	U55-8532/8537/8542	20681	531	FY2020/21/2	Darian Wood
UCSB	UCSB	FM	402.53.400191	Muon:CSC ODMB - Labor	U55-8532/8537/8542	20670	531	FY2020/21/2	Darian Wood
TAM	TAMU	FM	402.53.400192	Muon:CSC ODMB - M&S	U55-8532/8537/8542	20669	532	FY2020/21/2	Darian Wood
UCSB	UCSB	FM	402.53.400192	Muon:CSC ODMB - M&S	U55-8532/8537/8542	20670	532	FY2020/21/2	Darian Wood
TAM	TAMU	FM	402.53.400193	Muon:CSC ODMB - Travel	U55-8532/8537/8542	20669	533	FY2020/21/2	Darian Wood
OS	The Ohio State University	FM	402.53.400193	Muon:CSC ODMB - Travel	U55-8532/8537/8542	20681	533	FY2020/21/2	Darian Wood
UCSB	UCSB	FM	402.53.400193	Muon:CSC ODMB - Travel	U55-8532/8537/8542	20670	533	FY2020/21/2	Darian Wood
TAM	TAMU	FM	402.53.400291	Muon:CSC FED - Labor	U55-8532/8537/8542	20669	5F1	FY2020/21/2	Darian Wood
OS	The Ohio State University	FM	402.53.400291	Muon:CSC FED - Labor	U55-8532/8537/8542	20681	5F1	FY2020/21/2	Darian Wood
NEU	Northeastern University	FM	402.53.400292	Muon:CSC FED - M&S	U55-8542	20665	5F2	FY2020/21/2	Darian Wood
TAM	TAMU	FM	402.53.400292	Muon:CSC FED - M&S	U55-8532/8537/8542	20669	5F2	FY2020/21/2	Darian Wood
OS	The Ohio State University	FM	402.53.400292	Muon:CSC FED - M&S	U55-8532/8537/8542	20681	5F2	FY2020/21/2	Darian Wood
TAM	TAMU	FM	402.53.400293	Muon:CSD FED - Travel	U55-8532/8537/8542	20669	5F3	FY2020/21/2	Darian Wood
BU	Boston University	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20674	541	FY2020/21/2	Kevin Black
FT	Florida Inst of Technology	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20622	541	FY2020/21/2	Kevin Black
RI	Rice University	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20685	541	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20669	541	FY2020/21/2	Kevin Black
CL	UCLA	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20660	541	FY2020/21/2	Kevin Black
UW	University of Wisconsin-Madi	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20672	541	FY2020/21/2	Kevin Black
WSU	Wayne State University	FM	402.54.400191	Muon:GEM GE21 - Labor	U55-8532/8537/8542	20673	541	FY2020/21/2	Kevin Black
RI	Rice University	FM	402.54.400192	Muon:GEM GE21 - M&S	U55-8532/8537/8542	20685	542	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400192	Muon:GEM GE21 - M&S	U55-8532/8537/8542	20669	542	FY2020/21/2	Kevin Black
RI	Rice University	FM	402.54.400193	Muon:GEM GE21 - Travel	U55-8532/8537/8542	20685	543	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400193	Muon:GEM GE21 - Travel	U55-8532/8537/8542	20669	543	FY2020/21/2	Kevin Black
RI	Rice University	FM	402.54.400194	Muon:GEM GE21 - COLA	U55-8532/8537/8542	20685	544	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400194	Muon:GEM GE21 - COLA	U55-8532/8537/8542	20669	544	FY2020/21/2	Kevin Black
UCD	UC Davis	FM	402.54.400194	Muon:GEM GE21 - COLA	U55-8532/8537/8542	20687	544	FY2020/21/2	Kevin Black
WSU	Wayne State University	FM	402.54.400194	Muon:GEM GE21 - COLA	U55-8532/8537/8542	20673	544	FY2020/21/2	Kevin Black
BU	Boston University	FM	402.54.400291	Muon:GEM ME0 - Labor	U55-8532/8537/8542	20674	5G1	FY2020/21/2	Kevin Black
FIT	Florida Inst of Technology	FM	402.54.400291	Muon:GEM ME0 - Labor	U55-8532/8537/8542	20622	5G1	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400291	Muon:GEM ME0 - Labor	U55-8532/8537/8542	20669	5G1	FY2020/21/2	Kevin Black
CL	UCLA	FM	402.54.400291	Muon:GEM ME0 - Labor	U55-8532/8537/8542	20660	5G1	FY2020/21/2	Kevin Black
UW	University of Wisconsin-Madi	FM	402.54.400291	Muon:GEM ME0 - Labor	U55-8532/8537/8542	20672	5G1	FY2020/21/2	Kevin Black
BU	Boston University	FM	402.54.400292	Muon:GEM ME0 - M&S	U55-8532/8537/8542	20674	5G2	FY2020/21/2	Kevin Black
FIT	Florida Inst of Technology	FM	402.54.400292	Muon:GEM ME0 - M&S	U55-8532/8537/8542	20622	5G2	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400292	Muon:GEM ME0 - M&S	U55-8537/8542	20669	5G2	FY2021/22	Kevin Black
CL	UCLA	FM	402.54.400292	Muon:GEM ME0 - M&S	U55-8532/8537/8542	20660	5G2	FY2020/21/2	Kevin Black
TAM	TAMU	FM	402.54.400293	Muon:GEM ME0 - Travel	U55-8532/8537/8542	20669	5G3	FY2020/21/2	Kevin Black
CL	UCLA	FM	402.54.400293	Muon:GEM ME0 - Travel	U55-8532/8537/8542	20660	5G3	FY2020/21/2	Kevin Black
UCD	UC Davis	FM	402.54.400294	Muon:GEM ME0 - COLA	U55-8532/8537/8542	20687	5G4	FY2020/21/2	Kevin Black
UW	University of Wisconsin-Madi	FM	402.54.400294	Muon:GEM ME0 - COLA	U55-8532/8537/8542	20672	5G4	FY2020/21/2	Kevin Black
WSU	Wayne State University	FM	402.54.400294	Muon:GEM ME0 - COLA	U55-8532/8537/8542	20673	5G4	FY2020/21/2	Kevin Black
PD	Purdue University	FP	402.72.400091	TFPX:Management - Labor	U55-8531/8536/8541	20683	721	FY2020/21/2	Karl Ecklund
RI	Rice University	FP	402.72.400091	TFPX:Management - Labor	U55-8531/8536/8541	20685	721	FY2020/21/2	Karl Ecklund
CO	University of Colorado	FP	402.72.400091	TFPX:Management - Labor	U55-8531/8536/8541	20675	721	FY2020/21/2	Karl Ecklund
VB	Vanderbilt University	FP	402.72.400091	TFPX:Management - Labor	U55-8531/8536/8541	20671	721	FY2020/21/2	Karl Ecklund
PD	Purdue University	FP	402.72.400092	TFPX:Management - M&S	U55-8531/8536/8541	20683	722	FY2020/21/2	Karl Ecklund
RI	Rice University	FP	402.72.400092	TFPX:Management - M&S	U55-8531/8536/8541	20685	722	FY2020/21/2	Karl Ecklund

CO	University of Colorado	FP	402.72.400092	TFPX:Management - M&S	U55-8531/8536/8541	20675	722	FY2020/21/2	Karl Ecklund
KS	Kansas State University	FP	402.72.400093	TFPX:Management - Travel	U55-8531/8536/8541	20678	723	FY2020/21/2	Karl Ecklund
PD	Purdue University	FP	402.72.400093	TFPX:Management - Travel	U55-8531/8536/8541	20683	723	FY2020/21/2	Karl Ecklund
RI	Rice University	FP	402.72.400093	TFPX:Management - Travel	U55-8531/8536/8541	20685	723	FY2020/21/2	Karl Ecklund
CO	University of Colorado	FP	402.72.400093	TFPX:Management - Travel	U55-8531/8536/8541	20675	723	FY2020/21/2	Karl Ecklund
VB	Vanderbilt University	FP	402.72.400093	TFPX:Management - Travel	U55-8531/8536/8541	20671	723	FY2020/21/2	Karl Ecklund
PC	Purdue University Northwest	FP	402.73.400191	TFPX:Sensors - Labor	U55-8531/8536/8541	20682	731	FY2020/21/2	Stephen Wagner
CO	University of Colorado	FP	402.73.400191	TFPX:Sensors - Labor	U55-8531/8536/8541	20675	731	FY2020/21/2	Stephen Wagner
UIC	University of Illinois - Chicago	FP	402.73.400191	TFPX:Sensors - Labor	U55-8531/8536/8541	20689	731	FY2020/21/2	Stephen Wagner
PR	University of Puerto Rico	FP	402.73.400191	TFPX:Sensors - Labor	U55-8531/8536/8541	20684	731	FY2020/21/2	Stephen Wagner
CO	University of Colorado	FP	402.73.400192	TFPX:Sensors - M&S	U55-8531/8536/8541	20675	732	FY2020/21/2	Stephen Wagner
CO	University of Colorado	FP	402.73.400193	TFPX:Sensors - Travel	U55-8531/8536/8541	20675	733	FY2020/21/2	Stephen Wagner
UTK	University of Tennessee Knoxville	FP	402.73.400193	TFPX:Sensors - Travel	U55-8531/8536	20690	733	FY2020	Stephen Wagner
KS	Kansas State University	FP	402.73.400291	TFPX:ROCs - Labor	U55-8531/8536/8541	20678	7R1	FY2020/21/2	Stephen Wagner
KS	Kansas State University	FP	402.73.400292	TFPX:ROCs - M&S	U55-8531/8536/8541	20678	7R2	FY2020/21/2	Stephen Wagner
KS	Kansas State University	FP	402.73.400293	TFPX:ROCs - Travel	U55-8531/8536/8541	20678	7R3	FY2020/21/2	Stephen Wagner
CO	University of Colorado	FP	402.73.400391	TFPX:SRAs - Labor	U55-8531/8536/8541	20675	7S1	FY2020/21/2	Julia Thom
UTK	University of Tennessee Knoxville	FP	402.73.400391	TFPX:SRAs - Labor	U55-8531/8536/8541	20690	7S1	FY2020/21/2	Julia Thom
CO	University of Colorado	FP	402.73.400392	TFPX:SRAs - M&S	U55-8531/8536/8541	20675	7S2	FY2020/21/2	Julia Thom
UTK	University of Tennessee Knoxville	FP	402.73.400392	TFPX:SRAs - M&S	U55-8531/8536/8541	20690	7S2	FY2020/21/2	Julia Thom
VB	Vanderbilt University	FP	402.73.400392	TFPX:SRAs - M&S	U55-8531/8536/8541	20671	7S2	FY2020/21/2	Julia Thom
UTK	University of Tennessee Knoxville	FP	402.73.400393	TFPX:SRAs - Travel	U55-8531/8536/8541	20690	7S3	FY2020/21/2	Julia Thom
VB	Vanderbilt University	FP	402.73.400393	TFPX:SRAs - Travel			7S3		Julia Thom
CUA	Catholic University of America	FP	402.74.400191	TFPX:Module Factories - Labor	U55-8531/8536/8541	20676	741	FY2020/21/2	Matthew Jones
PD	Purdue University	FP	402.74.400191	TFPX:Module Factories - Labor	U55-8531/8536/8541	20683	741	FY2020/21/2	Matthew Jones
UIC	University of Illinois - Chicago	FP	402.74.400191	TFPX:Module Factories - Labor	U55-8531/8536/8541	20689	741	FY2020/21/2	Matthew Jones
NA	University of Nebraska	FP	402.74.400191	TFPX:Module Factories - Labor	U55-8531/8536/8541	20680	741	FY2020/21/2	Matthew Jones
CUA	Catholic University of America	FP	402.74.400192	TFPX:Module Factories - M&S	U55-8531/8536/8541	20676	742	FY2020/21/2	Matthew Jones
PD	Purdue University	FP	402.74.400192	TFPX:Module Factories - M&S	U55-8531/8536/8541	20683	742	FY2020/21/2	Matthew Jones
NA	University of Nebraska	FP	402.74.400192	TFPX:Module Factories - M&S	U55-8531/8536/8541	20680	742	FY2020/21/2	Matthew Jones
CUA	Catholic University of America	FP	402.74.400291	TFPX:Module Assembly - Labor	U55-8531/8536/8541	20676	7A1	FY2020/21/2	Matthew Jones
PD	Purdue University	FP	402.74.400291	TFPX:Module Assembly - Labor	U55-8531/8536/8541	20683	7A1	FY2020/21/2	Matthew Jones
NA	University of Nebraska	FP	402.74.400291	TFPX:Module Assembly - Labor	U55-8531/8536/8541	20680	7A1	FY2020/21/2	Matthew Jones
CUA	Catholic University of America	FP	402.74.400292	TFPX:Module Assembly - M&S	U55-8531/8536/8541	20676	7A2	FY2020/21/2	Matthew Jones
PD	Purdue University	FP	402.74.400292	TFPX:Module Assembly - M&S	U55-8531/8536/8541	20683	7A2	FY2020/21/2	Matthew Jones
NA	University of Nebraska	FP	402.74.400292	TFPX:Module Assembly - M&S	U55-8531/8536/8541	20680	7A2	FY2020/21/2	Matthew Jones
CUA	Catholic University of America	FP	402.74.400293	TFPX:Module Assembly - Travel	U55-8531/8536/8541	20676	7A3	FY2020/21/2	Matthew Jones
PD	Purdue University	FP	402.74.400293	TFPX:Module Assembly - Travel	U55-8531/8536/8541	20683	7A3	FY2020/21/2	Matthew Jones
NA	University of Nebraska	FP	402.74.400293	TFPX:Module Assembly - Travel	U55-8531/8536/8541	20680	7A3	FY2020/21/2	Matthew Jones
PC	Purdue University Northwest	FP	402.74.400391	TFPX:Module Testing - Labor	U55-8531/8536/8541	20682	7M1	FY2020/21/2	Matthew Jones
OS	The Ohio State University	FP	402.74.400391	TFPX:Module Testing - Labor	U55-8531/8536/8541	20681	7M1	FY2020/21/2	Matthew Jones
UIC	University of Illinois - Chicago	FP	402.74.400391	TFPX:Module Testing - Labor	U55-8531/8536/8541	20689	7M1	FY2020/21/2	Matthew Jones
OS	The Ohio State University	FP	402.74.400392	TFPX:Module Testing - M&S	U55-8531/8536/8541	20681	7M2	FY2020/21/2	Matthew Jones
UIC	University of Illinois - Chicago	FP	402.74.400392	TFPX:Module Testing - M&S	U55-8531/8536/8541	20689	7M2	FY2020/21/2	Matthew Jones
PC	Purdue University Northwest	FP	402.74.400393	TFPX:Module Testing - Travel	U55-8531/8536/8541	20682	7M3	FY2020/21/2	Matthew Jones
RI	Rice University	FP	402.75.400191	TFPX:Electronics Portcard - Labor	U55-8531/8536/8541	20685	751	FY2020/21/2	Karl Ecklund
RI	Rice University	FP	402.75.400192	TFPX:Electronics Portcard - M&S	U55-8531/8536/8541	20685	752	FY2020/21/2	Karl Ecklund
RI	Rice University	FP	402.75.400193	TFPX:Electronics Portcard - Travel	U55-8531/8536/8541	20685	753	FY2020/21/2	Karl Ecklund
RI	Rice University	FP	402.75.400291	TFPX:Electronics Interconnects - Labor	U55-8531/8536/8541	20685	711	FY2020/21/2	Andrew Ivanov
UIC	University of Illinois - Chicago	FP	402.75.400291	TFPX:Electronics Interconnects - Labor	U55-8531/8536/8541	20689	711	FY2020/21/2	Andrew Ivanov
KA	University of Kansas	FP	402.75.400291	TFPX:Electronics Interconnects - M&S	U55-8531/8536/8541	20679	711	FY2020/21/2	Andrew Ivanov
RI	Rice University	FP	402.75.400292	TFPX:Electronics Interconnects - M&S	U55-8531/8536/8541	20685	712	FY2020/21/2	Andrew Ivanov
KA	University of Kansas	FP	402.75.400292	TFPX:Electronics Interconnects - Travel	U55-8531/8536/8541	20679	712	FY2020/21/2	Andrew Ivanov
RI	Rice University	FP	402.75.400293	TFPX:Electronics Interconnects - Travel	U55-8531/8536/8541	20685	713	FY2020/21/2	Andrew Ivanov
UIC	University of Illinois - Chicago	FP	402.75.400391	TFPX:Electronics Power - Labor	U55-8531/8536/8541	20689	7E1	FY2020/21/22	
UIC	University of Illinois - Chicago	FP	402.75.400392	TFPX:Electronics Power - M&S	U55-8531/8536/8541	20689	7E2	FY2020/21/22	
VB	Vanderbilt University	FP	402.75.400392	TFPX:Electronics Power - M&S	U55-8531/8536/8541	20671	7E2	FY2020/21/22	
BU	Boston University	FP	402.75.400491	TFPX:Electronics DAQ - Labor	U55-8531/8536/8541	20674	7D1	FY2020/21/2	Andrew Ivanov
KS	Kansas State University	FP	402.75.400491	TFPX:Electronics DAQ - Labor	U55-8531/8536/8541	20678	7D1	FY2020/21/2	Andrew Ivanov
RI	Rice University	FP	402.75.400491	TFPX:Electronics DAQ - Labor	U55-8531/8536/8541	20685	7D1	FY2020/21/2	Andrew Ivanov
BU	Boston University	FP	402.75.400492	TFPX:Electronics DAQ - M&S	U55-8531/8536/8541	20674	7D2	FY2020/21/2	Andrew Ivanov
KS	Kansas State University	FP	402.75.400492	TFPX:Electronics DAQ - M&S	U55-8531/8536/8541	20678	7D2	FY2020/21/2	Andrew Ivanov
RI	Rice University	FP	402.75.400492	TFPX:Electronics DAQ - M&S	U55-8531/8536/8541	20685	7D2	FY2020/21/2	Andrew Ivanov
BU	Boston University	FP	402.75.400493	TFPX:Electronics DAQ - Travel	U55-8531/8536/8541	20674	7D3	FY2020/21/2	Andrew Ivanov
BU	Boston University	FP	402.75.400494	TFPX:Electronics DAQ - COLA	U55-8531/8536/8541	20674	7D4	FY2020/21/2	Andrew Ivanov
KS	Kansas State University	FP	402.75.400591	TFPX:Electronics Test - Labor	U55-8531/8536/8541	20678	7L1	FY2020/21/2	Andrew Ivanov
OS	The Ohio State University	FP	402.75.400591	TFPX:Electronics Test - Labor	U55-8531/8536/8541	20681	7L1	FY2020/21/2	Andrew Ivanov
UIC	University of Illinois - Chicago	FP	402.75.400591	TFPX:Electronics Test - Labor	U55-8531/8536/8541	20689	7L1	FY2020/21/2	Andrew Ivanov
KS	Kansas State University	FP	402.75.400592	TFPX:Electronics Test - M&S	U55-8531/8536/8541	20678	7L2	FY2020/21/2	Andrew Ivanov
KS	Kansas State University	FP	402.75.400593	TFPX:Electronics Test - Travel	U55-8531/8536/8541	20678	7L3	FY2020/21/2	Andrew Ivanov
OS	The Ohio State University	FP	402.75.400593	TFPX:Electronics Test - Travel	U55-8531/8536/8541	20681	7L3	FY2020/21/2	Andrew Ivanov
UIC	University of Illinois - Chicago	FP	402.75.400593	TFPX:Electronics Test - Travel	U55-8531/8536/8541	20689	7L3	FY2020/21/2	Andrew Ivanov
PD	Purdue University	FP	402.76.400091	TFPX:Mechanics - Labor	U55-8531/8536/8541	20683	761	FY2020/21/2	James Alexander

