

Solving the Collaboration Equation for an Interdisciplinary Health Education Facility

Presenters

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Senior Project Manager Donley's



DLR Group Westlake Reed Leskosky



Cleveland Clinic





Building the Future of Health Education.

Commitment • Collaboration • Communication • Quality



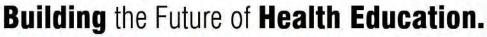
Health Education Campus



Learning Objectives

- **1. Develop** strategic partnerships, alliances, and relationships at multiple levels throughout all phases of a project.
- 2. Engage users and stakeholders in visioning, planning, and the decision-making processes.
- **3. Initiate** foundational collaborative practices across all disciplines.
- **4.** Utilize metrics to evaluate your project and challenge your team to continuously improve collaboration, performance, and quality.





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Solving the Collaboration Equation: 2 + 2 + 2 + 4 = 1 TEAM



Foster + Partners

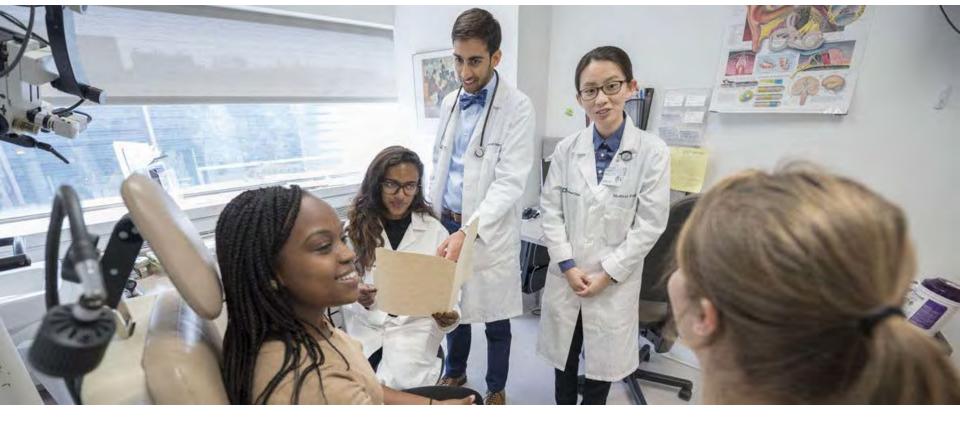




DLR Group Reed Leskosky



Case Western Reserve University School of Medicine Cleveland Clinic Lerner College of Medicine Case Western Reserve University Francis Payne Bolton School of Nursing Case Western Reserve University School of Dental Medicine



At the core of Case Western Reserve University and Cleveland Clinic's Health Education Campus is one motto:

Health care is a team sport.

The Team Can See You Now

Why Visit One Doctor When Some Offices Offer a Medical Entourage? Physician Shortage Drives Trend



Patients Are Looked After by a Team of Medical Professionals At Union Square Family Health Center in Somerville, Mass.



Doctor Kirsten Meisinger, supervises the medical team. She also diagnoses patients, performs procedures and prescribes medications.



Social Worker Paula Coutinho assists patients with needs like transportation and financial assistance. She also connects patients to behavioral health services for depression.

Physician Assistant Juliane Liberus handles routine consultations, manages lab results and helps patients with chronic diseases. She is the point person when the doctor isn't available.

Pharmacist Joseph Falinski advises patients on how to take drugs correctly and

possible side effects

and interactions. He can

adjust dosages and help

manage conditions like

chronic pain.

Medical Assistant Fabiola Marcelin takes patients' vital signs and prepares them to see the doctor. A trained phlebotomist, she does blood work and tracks follow-up

appointments.

Registered Nurse Amberly Killmer performs triage and directs some routine patient visits like prenatal counseling. She helps patients adopt healthier lifestyles.

CWRU & CCF IPE definition:

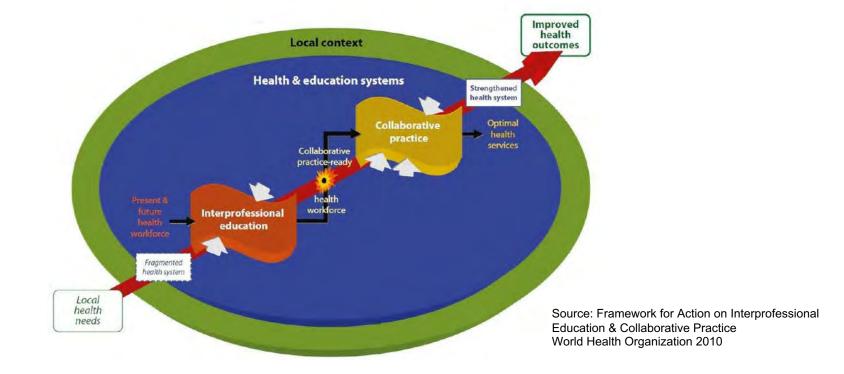
"Interprofessional education is a global effort designed to prepare future professionals for the new collaborative future of health care. In it, students not only learn the kinds of expertise their colleagues from other disciplines can offer, but also how to work together more effectively."



Building the Future of Health Education.

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- Prepares "collaborative practice-ready" health team
- Collaborative practices strengthen and improve patient outcomes
- Provides more fulfillment to those providing the care
- Mitigation of the global health care crisis

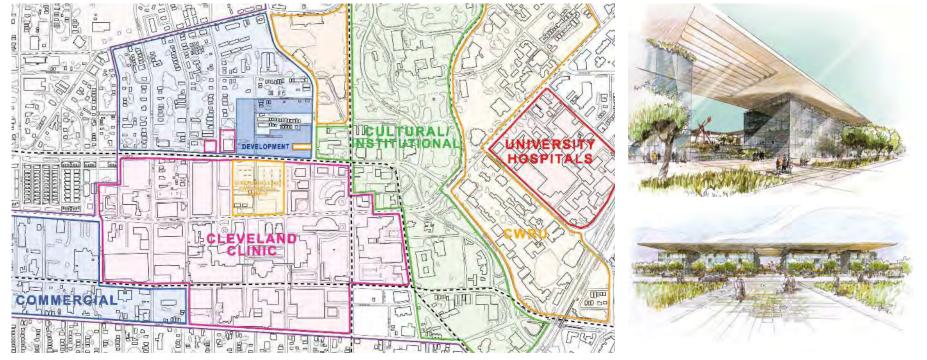
Why IPE?



Founded and operated by CWRU students to serve the health needs of the Greater Cleveland community, free of charge.



Integration/Activation in the Urban Fiber





Integration/Activation of the Urban Fiber

Architect Selection

Foster + Partners





Programming



Consolidated Program vs. Actual Summary : Reduced Scheme (with SD Comparison) 1 Se

1 September 2014

Kahler Slater

CASE WESTERN RESERVE UNIVERSITY - SCHOOL OF DENTAL MEDICINE 2.1 SIMULATION & PRE-CLINICAL

			2.2014 PR NICAL PR			GINAL PRI				
REMARKS		TOTAL	ASF/ SPACE	QTY	TOTAL	ASF/ SPACE	QTY	SPACE	D	
								SIMULATION & PRE-CLINICAL	2.1	
				_				TEACHING LABS	2.1.1	
	Comprehensive Care Research	320	160	2	320	160	2	Comp. Care Wet Lab	2.1.1.1	
		160	160	1	160	160	. (1	Comp. Care Dry Lab	2.1.1.2	
		800	800	1	800	800	1	Plaster Wet Lab (16p)	2.1.1.3	
	8 Simulator Stations @ 1005F	800	800	1	800	800	1	Dental Simulation Lab (8p)	21.1.4	
		4,300	4,300	1	4,300	4,300	1	Pre-Clinical Sim Lab (82p)	2.1.1.5	
	Taught in 2 Sections	2,100	2,100	1	2,100	2,100	1	Pre-Clinical Wet/Dirty Lab (42p)	2.1.1.6	
		200	200	1	200	200	1	CAD/CAM Leb (8p)	2.1.1.7	
		1,000	1,000	1	1,000	1,000	1	EFDA Teaching Lab (20p)	2.1.1.8	
		9,680			9,600			LAB SUPPORT	2.1.2	
Assume for Radiology Simulation (Wants/Floor-Mounted Computer (Asso	60	80	1	80	60	1	Comp. Care X-ray	2.1.2.1	
		200	200	1	200	200	1	Grading Box Room	2.1.2.2	
4013.2.4	Reduce space, may be combined with	100	100	1	200	100	2	Storage	2.1.2.3	
		100	100	1	100	100	1	Supply Storage Room	21.2.4	
		100	100	1	100	100	1	EFDA Storage Room	21.2.5	
	160 Lockers @ 3'w x 2h x 2'd	800	400	2	800	400	2	Student Equipment Lockers	2.1.2.6	
		1,380			1,480			Classrooms	2.1.3	
	100p Divisible Classroom	2,100	2,100	1	2,100	2.100	1	Flat Floor Lecture Hall (100p)	2.1.3.1	
		4,500	2.250	2	4,500	2,250	2	Tiered Lecture Hall (90p)	21.32	
	Case Method Layout	41.000								

		Program NSF	Reduced Scheme NSF	Scheme Design NSF
1. N	ledical Education			
1.1	Virtual Anatomy Space	7,142	8,044	8,455
1.2	Classrooms	27,720	26,326	25,330
	Miscellaneous Academic Space	750	0	719
	CWRU SOM Administrative Space	10,447	8,441	8,633
1.5	CCLCM Administrative Space	5,898	5,047	5,067
1.6	Shared Administrative Space	8,720	9,333	8,696
Tot	al Medical Education	60,677	57,191	56,900
2. 5	School of Dental Medicine			
2.1	Simulation and Preclinical	22,320	22,814	23,298
2.2	Pre-doctoral Clinical Space	25,498	25,456	26,155
2.3	Graduate Education and Clinical Space	27,185	24,287	24,409
2.4	Faculty Practice	2,398	2,600	2,735
2.5	Administration	6,613	4,943	6,735
2.6	Community Dentistry	2.014	1.528	1.774
Tota	al School of Dental Medicine	86,028	81,628	85,106
3. 5	School of Nursing	_		-
3.1	Academic Space	10,780	10,231	11.031
3.2	Learning Resource Center	4,675	4,992	4,780
3.3	Research	1,940	1,580	1,692
34	Administrative Space	21,712	21,166	21,269
	al School of Nursing	39,107	37,969	38,772
4	Shared Space			
4.1	Simulation and Clinical Skills Space	14.423	14,269	16.529
4.2	Classrooms	1,450	591	688
43	Student Space	40,790	25.537	30,415
4.4	Shared Audiovisual & Information Technology	3.028	2.443	2.549
4.5	Building Support	13,575	9.045	7,759
	al Student Space	73,266	51,885	57.940
Tot	al NSF	259.078	228,673	238,718



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Space Utilization Studies

	Fall, week 1			Fall, week 2						Fall, week 3				Fall, week 4							
-	Mon. 10/1	Tues_ 10/2	Wed 10/3	Thur. 10/4	Fri. 10/5	Mon 10/8	Tues. 10/9	Wed 10/10	Thur. 10/11	Fri 10/12	Mon 10/15	Tues 10/16	Wed. 10/17	Thurs_ 10/18	Fri. 10/19	Mon 10/22	Tues 10/23	Wed 10/24	Thu: 10/25	Fri.10/26	Mon 10
AM AM		FM Seminars					FM Sertimars			Histologic		Fixi Seminars	Blood		Basic EP Lab		FM Seminars			Histologic Org.	
M		Eall of the Profession		-			Call of the Profession	of Energy Metabolism		Drgaization of the Heart		Call of the Profession	Pressure and Valve		Ion Channels		Call of the Profession	-	GP1CASES:	of the	-
AM		(32 p)				Moved from	and the second second	[32p]		(32p)		(320)	Function		(32p)		13201	*****	Ankle & Ennt?		
AM		Multi-System	Targeted		MSG:	Group Roon	n la	Functional		Brain trauma		FM Seminars	Inflammation			Neurobiologic	FM Seminars Devising	GP1LAB3 Hip & Knee/ GP2	GP2 LAB4 GP1 LAB4	Basic	Function
AM		Mediated	Therapies in Fiheumatic		Applying	Pathology of	and	Anatomy of Stroke		(32p) Silatus		Devising Health	and Demvelination		-	el and Psychological	Health	@ Kneer un2	Ankle & Foot	Autonomic Nervous	the Vis
AM		Disease	Diseases	the tax to be the contact of	Contact States and	Vascular	Autoregulators	(32p)	a fail as in table to tak	Epileplicus,	it is the test of the test	Communities	[32p]	And Const. (all of the light)	and the training the to	Aspects of the	Communities	Para and a state of the state o	/ GP2	System	Suste
PM PM					ARM2 Musdekiti Air					ABM2Infiam			CCLCM		ARIV2					ARM2 Davigen the elizir of life	
M	1									APM1			Elinical Skills		Databases for		GP1CASES:			AEMI Novel	
M			CCLCM		ARM3 Medical					Unusual Role			#2(36p)		AFE/1 (33p)		Elbow, Wrist &			Mechan &	
PM PM			Clinical Skills		Decision					of Engymes in					(seeded	Preventative	Hand/GP2 GP1LAE2			Throw for	
201 201	-		#1Student Intro to Clinical		Making	-										Care (Year 2)	Elbow & Prui/				-
PM			Skills (36a)		(36p)					************				(espides bits strength)		(cj8c)	GP2 CASES	(min) 040 00	110000000000000000000000000000000000000		
14										- Contractor									Imonorer		
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	Total hrs used		hrs available		utilization rate	Total hrs used		hrs available			Total hrs used		hrs available			Total hrs used		hrs available		utilization rate	Total hrs
1	15.5 Mon Feb 4	S	45 pring, week	1 Thur Eah 7	34.4%	16.5	Tues Feb 1	45 pring, week	2	36.7%	15 Man Feb 18	S Tues Feb 19	45 pring, week	3 Thur Fab 21	33.3%	22.5	S	45 pring, week	4 Thur Fab 28	50.0%	12
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M		Tues, Feb. 5 FM Seminars Call to Ethical	pring, week	1 Thur, Feb. 7			Tues. Feb. 1: Atherosolerosi s Risk	Wed. Feb. 13	2 Thur. Feb. 14	_		Tues: Feb. 19 FMSeminars Call to Efficial	pring, week	3 Thur Feb 21	Fn. Feb. 22 MSG: Action		Tues, Feb. 26 FMSemmars Call to Ethical	pring, week Wed. Feb. 27 Basic	:4 Thur Feb 28		12
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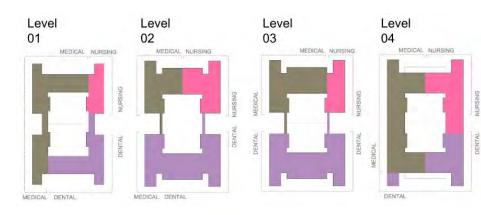
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Commitment • Collaboration • Communication • Quality

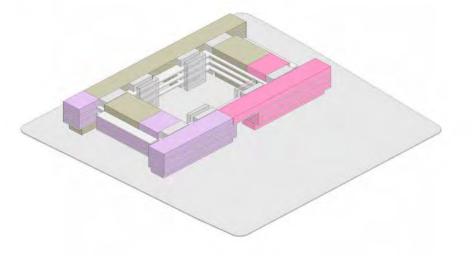


Design Thinking with Solutions In Mind











Original Four Building Concept

Design Thinking with Solutions In Mind











Design Thinking with Solutions In Mind







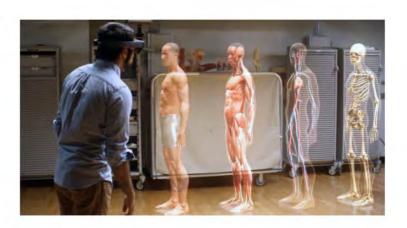


Technology

Microsoft HoloLens

Hololens





HoloLens



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Intersections

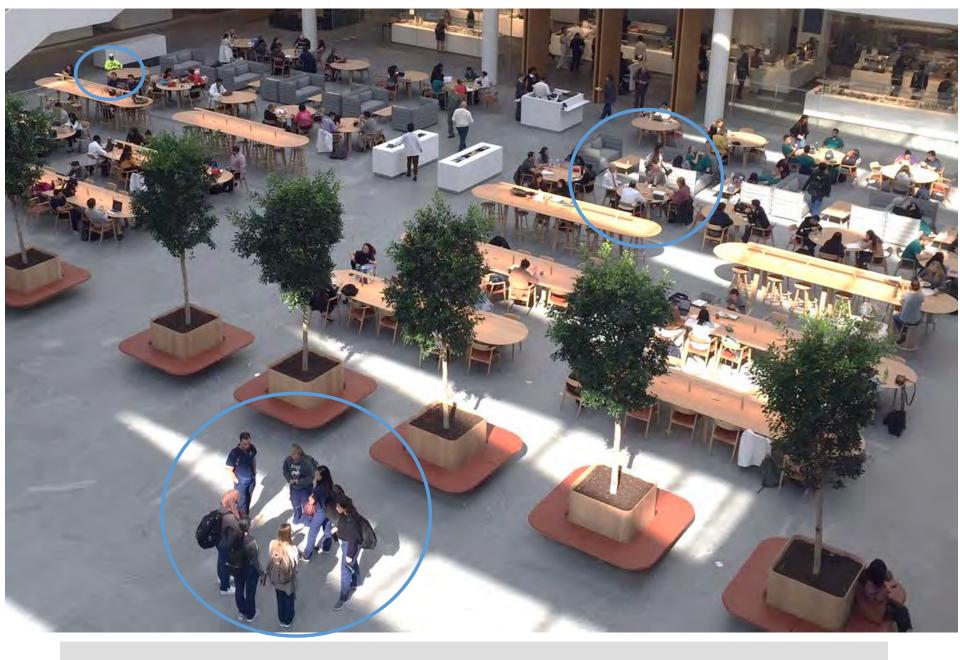




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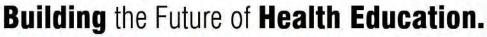


Immersive Collaborative Outcome

Learning Objectives

- ✓ Develop strategic partnerships, alliances, and relationships at multiple levels throughout all phases of a project.
- ✓ Engage users and stakeholders in visioning, planning, and the decision-making processes.
- **3. Initiate** foundational collaborative practices across all disciplines.
- **4.** Utilize metrics to evaluate your project and challenge your team to continuously improve collaboration, performance, and quality.





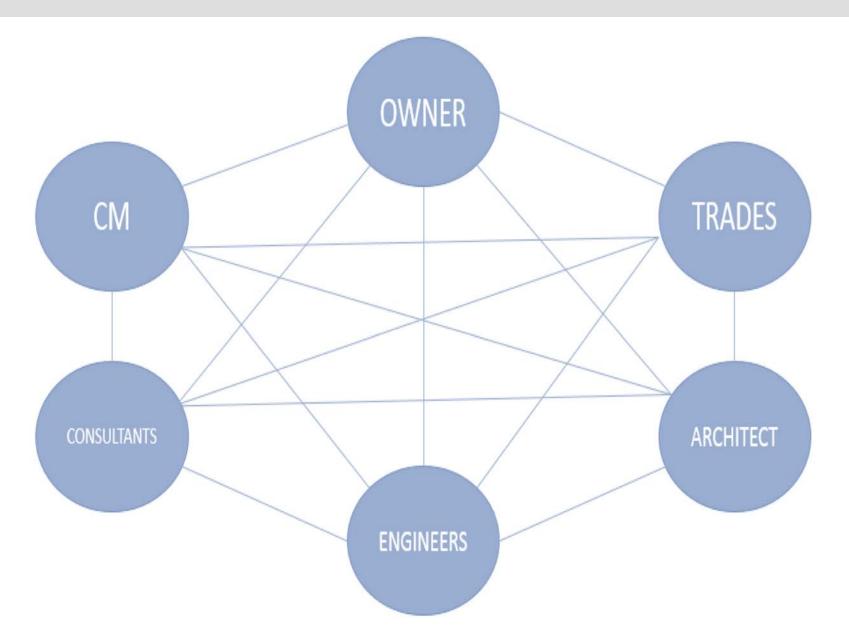
Commitment • Collaboration • Communication • Quality



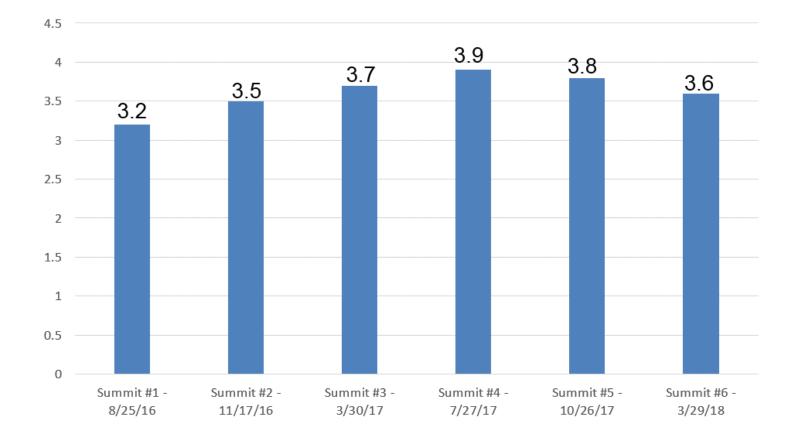
Construction



Project Culture



Comparison of Team Surveys





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Lean

INTEGRATED PROJECT DELIVERY

Team

Project Mission

Culture

Transparency

Open Communication

Budget & Schedule Metrics

No Silos

Customer Experience

Trust

Continuous Improvement

Accountability

Collaboration

<u>LEAN</u>

Reduce Waste Empowerment of Last Planner "What Bugs You?" Efficient Workflow Lean Tools

Co-Location





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Design Assist





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Quality











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Quality

QUALITY PLAN





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Constraint Log

- Concise Commitments
- Timely Commitments
- Team Constraint Log
- Two Constraint Logs
 - Design
 - Construction





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High Priority Focus List

- 1. Is there a clear problem identified?
- 2. Do we have the correct attendees?
- 3. Do we have team engagement?
- 4. Is progress being made outside of this meeting?
- 5. Are weekly commitments accomplished?



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Percent Plan Complete

1	2	3	4	5		PPC
					7/3/2018	60%
					7/10/2018	80%
					7/17/2018	40%
					7/24/2018	50%
					7/31/2018	43%
					8/7/2018	85%



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Morning Huddle

• 7 Minute Safety Huddle – daily

• Stretch and Flex – daily





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Lessons Learned: Daily Huddles – Last 15 minutes of the day





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Community Benefits Success





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Lessons to Take Home

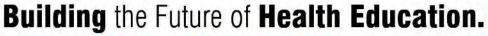
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✓ Engage users and stakeholders in visioning, planning, and the decision-making processes.

✓ Initiate foundational collaborative practices across all disciplines.

✓ Utilize metrics to evaluate your project and challenge your team to continuously improve collaboration, performance, and quality.





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Solving the Collaboration Equation for an Interdisciplinary Health Education Facility

HEALTH EDUCATION CAMPUS

Cleveland, OH | 475,000 GSF

