Name of Core	Location	Manager	Manager Email	Description	Website
BioBank and Molecular	Nemours	Diana Corao-	diana.coraouribe@nemours.org	BMAP houses a tissue	https://www.nemours.org/pediatric-
Analysis Program (BMAP)	Children's	Uribe & Jen	<u>&</u>	biorepository and a wet	research/labservices/core/biobank-and-
	Hospital	Holbrook	jennifer.holbrook@nemours.org	lab specializing in	<u>molecular.html</u>
				molecular biology	
				instrumentation and	
				methodologies. BMAP	
				offers clinical trial	
				support as well as basic	
				specimen processing.	
				Services offered include:	
				serum and plasma	
				isolation, mononuclear	
				cell isolation, liquid	
				nitrogen flash freezing,	
				and cell culture of	
				surgery specimens,	
				nucleic acid extraction	
				and QC, specimen	
				identification and	
				profiling, Real-Time	
				qPCR and gene	
				expression analysis, CNV	
				(copy number variation)	
				detection and digital	
				PCR, and DNA Sanger	
				sequencing.	
Biolmaging Center	University of	Jeff Caplan	jcaplan@udel.edu	The Biolmaging Center	http://bioimaging.dbi.udel.edu
(University of Delaware)	Delaware			houses state-of-the-art	
				microscopy	
				instrumentation,	
				including transmission	
				and scanning electron	
				microscopy, atomic	
				force microscopy, and	
				advanced light	

	1				
				microscopy. The	
				Biolmaging Center	
				contains a breadth of	
				equipment enabling us	
				to acquire information	
				from the millimeter to	
				nanometer scales.	
				Whether you want to	
				look at whole	
				organisms, cells,	
				organelles, or individual	
				proteins, we'll be able to	
				accommodate your	
				research needs.	
Data Science Core (DSC)	University of	Shawn Polson	polson@udel.edu	The DSC offers many	https://bioinformatics.udel.edu/core
	Delaware			services to help with	
				planning your research	
				or analyzing your	
				current data. Services	
				include: consultation,	
				proposal assistance,	
				training, and software	
				and hardware resources,	
				database and web	
				services, next gen	
				analysis, and custom	
				analysis	
Biostatistics	ChristianaCare	Claudine	cjurkovitz@christianacare.org	The BERD Core offers	https://www.de-ctr.org/cores/biostatistics-
Epidemiology Research		Jurkovitz		consultative services	epidemiology-and-research-design-berd-core/
Design Core (BERD)				including epidemiology,	
				biostatistics, research	
				design, data	
				management, and bio-	
				and medical informatics.	
				Services offered include:	
				assistance with statistics	

				analysis and advanced	
				statistical	
				methodologies.	
Cardiovascular Research	University of	Shannon	slennon@udel.edu	CVRC offers a variety of	https://sites.udel.edu/cvhealth/
Core (CVRC)	Delaware	Lennon		services to assist with	
				cardiovascular research	
				goals. Services offered	
				include: custom vascular	
				studies,	
				echocardiography, 24-	
				hour blood pressure,	
				monitoring Standard	
				and Doppler Carotid	
				ultrasound. Personnel	
				support includes	
				ultrasound expertise,	
				cell culture support, a	
				research nurse, and	
				support for graded	
				exercise testing	
Cawley Center for	ChristianaCare	Lynn	lopdenaker@christianacare.org	CCTCR offers a variety of	https://christianacare.org/us/en/care/cancer-
Translational Cancer		Opdenaker		services and techniques	care/cancer-research/cawley-center-for-
Research (CCTCR)				including: flow	translational-cancer-research-at-christianacare
				cytometry / cell sorting,	
				real time PCR, and	
				microirradiator.	
Cell Science Core (CSC)	Nemours	Sonali Barwe	sonali.barwe@nemours.org	The Cell Science Core	https://www.nemours.org/pediatric-
	Children's			(CSC) assists researchers	research/labservices/core/cell-science.html
	Hospital			in flow cytometry, cell	
				sorting, and other cell	
				sciences. The core	
				provides access to a	
				variety of state-of-the-	
				art technology and	
				technical expertise to	
				researchers. Services	

		1			
				offered include: flow	
				cytometry, cell culture,	
				2-D electrophoresis, 2-D	
				DIGE, LC-MS/MS, and	
				HPLC.	
Center for Biomedical	University of	Keith Schneider	keithas@udel.edu	CCBI offers a state-of-	https://cbbi.udel.edu/
and Brain Imaging (CBBI)	Delaware			the-art research facility	
				houses the first research	
				fMRI scanner in the	
				state of Delaware—with	
				the capability to map	
				brain activity, as well as	
				provide remarkably	
				detailed images of	
				muscles, discs, bones	
				and organs. Services	
				offered include:	
				functional and structural	
				magnetic resonance	
				imaging (MRI) for	
				humans, with two 3T	
				scanners for humans	
				and large animals, and a	
				9.4T scanner for	
				samples and small	
				animals. Additionally,	
				simultaneous MRI with	
				EEG or TMS can be	
				performed.	
Center for Human	University of	Karin Gravare	kgs@udel.edu &	University of Delaware's	https://chrc.udel.edu/
Research Coordination	Delaware	Silbernagel &	mgoss@udel.edu	Center for Human	
		Marlo Goss		Research Coordination	
				(CHRC) was established	
				to support UD	
				researchers focused on	
				human subject research.	

				Research changes	
				neonle's lives and we	
				are here to support the	
				endeavor of advancing	
				rosoarch at the	
				Liniversity of Delaware	
				CLIPC will assist with	
				CHRC will assist with	
				participants,	
				coordination of studies	
				and registries, as well as	
				REDCap and data	
				management.	
Custom Synthesis Lab	University of	Yinzhi Fang	yinzhif@udel.edu	The Custom Synthesis	For more information please email the core
	Delaware			Lab offers many services	manager
				including: synthetic	
				chemistry services,	
				broadly defined, mainly	
				to non-specialists with	
				limited access to organic	
				chemistry facilities.	
Delaware Center for	University of	Mary Boggs &	mboggs@udel.edu &	The DCMR core offers a	https://dcmr.udel.edu/dcmrcore/
Musculoskeletal	Delaware	Liyun Wang	Lywang@udel.edu	wide range of services	
Research (DCMR)				and expertise in support	
				of furthering	
				musculoskeletal	
				research. Services	
				offered include:	
				mechanical testing and	
				measurements,	
				multimodal animal	
				imaging, histology, and	
				preclinical	
				experimentation/lab	
				and animal medicine.	

DNA Sequencing &	University of	Bruce Kingham	brucek@udel.edu	The University of	https://dna.dbi.udel.edu/
Genotyping Center	Delaware			Delaware Genomics	
				Technology Center	
				contains a wide range of	
				instrumentation which	
				enables us to acquire	
				genetic/genomic	
				information from the	
				smalest virus to to the	
				largest mammals.	
				Services offered include:	
				DNA sequencing (Sanger	
				and next-generation	
				sequencers); nucleic	
				acid extraction,	
				purification, and	
				amplifications; nucleic	
				acid quality analysis;	
				DNA fragmentation;	
				DNA size selection.	
Flow Cytometry Core	University of	Arit Ghosh	aghos@udel.edu	The Flow Cytometry	https://bioimaging.dbi.udel.edu/flow-
	Delaware			Core offers a full service	cytometry-core-2/
				flow cytometry and cell	
				sorting facility. Services	
				offered include:	
				Immunophenotyping,	
				DNA content analysis,	
				veterinary hematology,	
				sample processing,	
				figure preparation, data	
				analysis, consultation,	
				assay design, cell	
				culture, and cell sorting	
High Throughput	University of	Jessica	jrsampso@udel.edu	The HTE Center offers	https://sites.udel.edu/htecenter/
Experimentation (HTE)	Delaware	Sampson		compound library	
Center				synthesis, reaction	

				development, and	
				collection of data sets	
				for statistical model	
				development Services	
				offered include organic	
				reactions in parallel	
				format for 24- and 96-	
				well microscale	
				experiment screening to	
				support ranid	
				identification of	
				catalysts for new	
				reactions and	
				optimization of reaction	
				conditions	
Histochomistry and	Nomours	Hoothor Hordy	hoathar hardy@nomours.org	The Histochomistry and	https://www.pomours.org/podiatric
Tissue Processing Contor	Childron's	Theather Thanuy	neather.naruy@nemours.org	Tissue Processing Core	research/labservices/core/histotechnology.html
	Hospital			(HTPC) is a full-sorvice	
(nrc)	Hospital			histology laboratory	
				nistology laboratory	
				tochniques Services	
				effored includes a wide	
				onered include: a wide	
				array or	
				Instrumentation, and	
				provides consultation	
				for research projects for	
				special staining, enzyme	
				histochemistry,	
				immuno-histochemistry	
				and routine processing.	
				ine lab offers TIVIA	
				services, and can	
				prepare slides from	
				normal controls or	
				provide custom arrays	

				from provided sample	
				blocks.	
Life Science Research	University of	Gwen Talham	gtalham@udel.edu	The LSRF provides	For more information please email the core
Facility (LSRF)	Delaware			housing for research	manager
				rodents and technical	
				expertise is available to	
				train research staff or	
				conduct experimental	
				procedures.	
Mass Spectrometry Core	University of	PapaNii Asare-	pasare@udel.edu	Training, state-of-the-art	https://sites.udel.edu/mslab/
	Delaware	Okai		equipment, and	
				expertise for mass	
				spectrometry and	
				proteomics. Services	
				include a wide variety of	
				instruments using El, Cl,	
				FD, ESI, APCI and LIFDI	
				for analyses in GC-MS,	
				LC-MS, MS-MS modes.	
Nuclear Magnetic	University of	Steve Bai	bais@udel.edu	The NMR Spectroscopy	https://sites.udel.edu/nmr/
Resonance (NMR)	Delaware			Core is home to nine	
Spectroscopy Core				NMR spectrometers	
				ranging from 9.4 to 20.0	
				T (400-850 MHz in	
				proton frequency) in	
				magnetic field strength,	
				with a full range of	
				capabilities from	
				solution to solid state to	
				HR-MAS NMR, as well as	
				an EPR spectrometer.	
				Services offered include	
				solution and solid-state	
				nuclear magnetic	
				resonance spectroscopy.	
				These spectrometers are	

				equipped with various	
				state-of-the-art probes	
				and other key	
				accessories for general	
				and specialized	
				applications to meet the	
				needs of our diverse	
				user group.	
Optical Science Center	Delaware	Hacene Boukari	hboukari@desu.edu &	The OSCAR Imaging	https://www.desu.edu/oscar-imaging-center
for Applied Research	State	& Michael	mmoore@desu.edu	Facility is a multi-user	
(OSCAR) Imaging Facility	University	Moore		core facility that offers	
, , , , ,	,			, state-of-the-art	
				equipment for imaging.	
				microscopy,	
				spectroscopy, and image	
				analysis. Services	
				offered include imaging,	
				microscopy,	
				spectroscopy, and image	
				analysis including:	
				confocal microscopy,	
				electron microscopy,	
				atomic force	
				microscopy, light	
				microscopy, sample	
				prep.	
Pediatric Genomics	Nemours	Diana Corao-	diana.coraouribe@nemours.org	The PGL Project offers	https://genomics.nemours.org/
Laboratory (PGL) Project	Children's	Uribe		consultation/experiment	
	Hospital			design, library	
				preparation, next	
				generation sequencing,	
				and downstream data	
				analysis. Services	
				currently offered	
				include: RNA, DNA, and	
				Targeted Panel library	

		prep, Illumina	
		BeadArrays, sequencing,	
		bioinformatics, nucleic	
		acid extraction and 10x	
		single cell applications.	