

Lab/							Research Interests and Expertise
Name	Email	Department	Title	Research Keywords	TN Tech Contact Page	Research Website	
Samantha Allen	saallen@tntech.edu	Environmental Studies	Assistant Professor	freshwater ecology, conservation, spatial analysis	https://www.tntech.edu/directory/cis/ses/samantha-allen.php	-	Remote sensing, spatial analysis, freshwater ecology, biodiversity conservation, community-engaged research
Jesse Carrick	jcarrick@tntech.edu	Chemistry	Professor	organic chemistry, synthetic improvements	https://www.tntech.edu/directory/cas/chemistry/jesse-carrick.php	https://www.tntech.edu/cas/chemistry/carrick-research-group.php	Separation science leveraging organic synthesis for minor actinide extraction from simulated high-level waste, development of synthetic methods for the construction of functionalized heteroaryl synthons for use in separations, and total synthesis of biologically relevant natural products.
Brian Carver	bcarver@tntech.edu	Biology	Associate Professor	mammals, communities, bats	https://www.tntech.edu/directory/cas/biology/brian-carver.php	https://www.plateau-ecological.com/	Mammalian community dynamics, conservation of rare mammals, bat biology and management
Bradley Cohen	bcohen@tntech.edu	Biology	Assistant Professor	conservation, ecology, game management	https://www.tntech.edu/directory/cas/biology/bradley-cohen.php	https://www.cohen-wildlifelab.com/	Wildlife ecology and management of game animals, especially for deer and turkey, Predator
Brad Cook	SBCook@tntech.edu	Biology	Professor	macroinvert, freshwater ecology, fishes	https://www.tntech.edu/directory/cas/biology/steven-cook.php	-	Ecology of freshwater invertebrates, fish parasitology, feeding ecology and bioenergetics of freshwater fishes, biotic indices
Tania Datta	tdatta@tntech.edu	Civil & Environmental Engineering	Professor	microplastics, wastewater, water quality engineering, microbiology	https://www.tntech.edu/directory/engineering/faculty/tania-datta.php	https://www.facebook.com/dattalab/	Biological wastewater treatment process and design, applied environmental microbiology, water quality/watershed management, bioenergy production through anaerobic processes, low-cost technologies for water and sanitation in developing countries

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Wilson Gichuhi	wgichuhi@tntech.edu	Chemistry	Associate Professor	spectroscopy, atmospheric gases, radical anions	https://www.tntech.edu/directory/cas/chemistry/wilson-gichuhi.php	https://www.tntech.edu/cas/chemistry/gichuhi-research-group.php	Atmospheric spectroscopy of reactive and non-reactive trace gases in the atmosphere using infrared and cavity enhanced spectroscopic techniques, negative ion photoelectron spectroscopy of aromatic radical anions that are of interest to astrochemistry, environmental, and biological systems.
Joshua Hall	jmhall@tntech.edu	Biology	Assistant Professor	herpetology, global change, physiology, embryology	https://www.tntech.edu/directory/cas/biology/joshua-hall.php	https://www.devocoe.org/	Herpetology, urban adaptation and global change biology, developmental biology and embryo physiology, life
Evan Hart	ehart@tntech.edu	Earth Sciences	Professor	geosciences, flood hydrology, soils, karst	https://www.tntech.edu/directory/cas/earthsciences/evan-hart.php	-	Fluvial geomorphology, flood hydrology, karst, soils, coastal processes
Steven Hayslette	SHayslette@tntech.edu	Biology	Professor	wildlife, ecology, avian ecology	https://www.tntech.edu/directory/cas/biology/steven-hayslette.php	-	Wildlife ecology and management, avian ecology, behavior, and nutrition, ecology and management of upland game birds
Carla Hurt	churt@tntech.edu	Biology	Professor	marine wildlife, taxonomy, phylogenetics, diversity	https://www.tntech.edu/directory/cas/biology/carla-hurt.php	https://sites.tntech.edu/hurtlab/current-lab-members/	Processes of speciation and diversification in marine invertebrates, molecular tools for taxonomy and phylogenetics, and marine symbiotic communities
Kristen Johnson	knjohnson@tntech.edu	Chemistry	Assistant Professor	physical and environmental chemistry, aerosols	https://www.tntech.edu/directory/cas/chemistry/kristen-johnson.php	-	Physical, analytical and atmospheric/environmental chemistry, molecular self-assembly within aerosol particles and thin films and its impact on their chemical reactivity and the uptake of toxic compounds.

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Alfred Kalyanapu	akalyanapu@tntech.edu	Civil & Environmental Engineering	Professor	flood models, GIS, watershed, climate	https://www.tntech.edu/directory/engineering/faculty/alfred-kalyanapu.php	https://www.techwarms.org/	Regional scale flood modeling simulation, GIS applications in civil and environmental engineering, hydrologic monitoring and analysis, low-cost technologies for watershed hydrology, Integrated watershed management, computational hydraulics and hydrology, climate impacts
Hannah Kinmonth-Schultz	hkinmonth@tntech.edu	Biology	Assistant Professor	botany, flowering plants, molecular biology ecology	https://www.tntech.edu/directory/cas/biology/hannah-kinmonth-schultz.php	https://sites.tntech.edu/hkinmonth/	Plant environmental perception and the mechanisms controlling plants' transition to flowering, especially in complex and changing environments. multidisciplinary approaches that span molecular biology, physiological ecology, and statistical and mathematical modeling.
Shawn Krosnick	skrosnick@tntech.edu	Biology	Associate Professor	plant taxonomy, plant structure, evolution	https://www.tntech.edu/directory/cas/biology/shawn-zeringue-krosnick.php	https://sites.tntech.edu/skrosnick/	Plant taxonomy, molecular systematics, floral development, plant morphology and anatomy, evolutionary developmental biology
Jingjing Li	jingjingli@tntech.edu	Water Center	Postdoc Research Associate	algae, algal blooms, rivers, microcystin	https://www.tntech.edu/cas/biology/postdocs.php	-	Freshwater algae molecular detection methods, harmful algal bloom formation mechanisms in rivers and reservoirs, effects of nutrients on algae competition and microcystin production.
Peter Li	PLi@tntech.edu	Earth Sciences	Chair and Professor	GIS analysis, environment, water quality	https://www.tntech.edu/directory/cas/earthsciences/peter-li.php	-	GIS and geospatial analysis, environmental applications of GIS, evaluating water quality in karst regions.
John Liu	johnliu@tntech.edu	ORED/Biology	Vice President Research & Economic Dev	aquaculture, genome analysis, bioinformatics	https://www.tntech.edu/directory/cas/biology/john-liu.php	-	Aquaculture genomics and bioinformatics. genome structure, organization, architecture, whole genome sequencing, genome expression and transcriptome analysis, mapping of performance and production traits, and most recently, reproductive traits such as sex determination, and genetic and epigenetic regulation of sex determination and differentiation.

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Jeannette Luna	jluna@tntech.edu	Earth Sciences	Professor	environment, geology, sedimentology, geoscience	https://www.tntech.edu/directory/cas/earthsciences/jeannette-luna.php	https://tntechsedgeology.org/	Sedimentology and stratigraphy, carbonate/clastic slope environments, deepwater deposition, planetary geology, petroleum geology, mineral exploration
Hayden Mattingly	hmattingly@tntech.edu	Environmental Studies	Professor	stream ecology, conservation, environmental management	https://www.tntech.edu/directory/cis/ses/hayden-mattingly.php	-	Stream fish and crayfish ecology and conservation, endangered species management and recovery, Large-scale environmental management and conservation planning
Abdul Momin	momin@tntech.edu	Agriculture	Assistant Professor	data analysis, hyperspectral imaging, agriculture	https://www.tntech.edu/directory/cahe/ag-faculty-staff/abdul-momin.php	-	Data-driven precision and digital agriculture technologies, machine vision and hyperspectral imaging systems, and postharvest engineering.
Justin Murdock	jnmurdock@tntech.edu	Water Center/ Biology	Director/ Professor	water quality, wetlands, algae, stream ecology, biogeochemistry	https://www.tntech.edu/directory/cas/biology/justin-murdock.php	https://sites.tntech.edu/jnmurdock/	Algal ecology and harmful algal blooms, nutrient retention and cycling in aquatic systems, stream and wetland community ecology, disturbance ecology, microscopy and imaging techniques, emerging contaminants (microplastics and PFAS) in aquatic ecosystems
Kyle Murphy	kmurphy@tntech.edu	Chemistry	Assistant Professor	organic, sustainability, medicinal chemistry	https://www.tntech.edu/directory/cas/chemistry/kyle-murphy.php	-	Organic polymers and macromolecules, sustainable chemistry using renewable resources, medicinal chemistry in combating antibiotic resistance, and biomimetic methodology for precise aromatic modifications.
Robert Paine	rtpaine@tntech.edu	USGS Cooperative Fisheries Unit/Biology	Postdoc Research Associate	environmental DNA, metabarcoding, animal distribution	https://www.tntech.edu/cas/biology/postdocs.php	-	Environmental DNA, molecular ecology, use of animal waste to answer questions related to their presence and distribution, use of metabarcoding techniques with fish communities, invasive species

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Mostafa Rahnama	mrahnama@tntech.edu	Biology	Assistant Professor	molecular biology, fungi, environment, chromosomes	https://www.tntech.edu/directory/cas/biology/mostafa-rahnama.php	https://sites.google.com/view/rahnama-lab/home?authuser=7	Molecular mechanisms involved in fungal adaptation to various environments, especially during interactions with different hosts (plants, insects, and animals). fungal genome evolution. chromosomal structure and dynamics, molecular mechanisms involved in the emergence and distribution of new diseases, using fungi as a natural pesticide.
Joshua Reed	jjreed@tntech.edu	Agriculture	Assistant Professor		https://www.tntech.edu/directory/cahe/ag-faculty-staff/joshua_reed.php		
Mark Rogers	MWROgers@tntech.edu	USGS Cooperative Fisheries Unit/Biology	Unit Leader/ Professor	fisheries, ecology, invasive + native species	https://www.tntech.edu/directory/cas/biology/mark-rogers.php	https://www1.usgs.gov/coop/units/unit/Tennessee	Fisheries ecology and management with a focus on sportfish population dynamics, invasive species effects, native species restoration, aquatic food webs, and global inland fisheries.
Amanda Rosenberger	arosenberger@tntech.edu	USGS Cooperative Fisheries Unit/Biology	Asst. Unit Leader/ Professor	freshwater ecology, aquatic communities and organisms	https://www.tntech.edu/directory/cas/biology/amanda-rosenberger.php	-	Ecology and conservation of freshwater biota, including fish, mussels, and crayfish, with an emphasis on the role of ecological processes in shaping aquatic organisms' distributions, population characteristics, and community structure.
Robby Sanders	RSanders@tntech.edu	Chemical Engineering	Associate Professor	clinical, lung disease, development of soft gel	https://www.tntech.edu/directory/engineering/faculty/robbie-sanders.php	-	Clinical diagnostics and new therapeutics for diseases of the lungs, development, utilization, and characterization of soft gel materials, and wound healing
Surya Shrestha	sshrestha@tntech.edu	Agriculture	Assistant Professor		https://www.tntech.edu/directory/cahe/ag-faculty-staff/surya_shrestha.php		

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Christopher Wheeler	kitwheeler@tntech.edu	Biology	Associate Professor	stream ecology, fish, community, ecosystem	https://www.tntech.edu/directory/cas/biology/kit-wheeler.php	https://www.tntechstreamfishecology.org/	Stream fish ecology and conservation, fish conservation, flow ecology, population and community modeling, and relationships between biodiversity and ecosystem functioning.
Jinfa Zhang	jzhang@tntech.edu	Agriculture	Associate Dean/ Professor	agriculture, drought, genetics	https://www.tntech.edu/directory/cahe/ag-faculty-staff/jinfa-zhang.php		Cotton breeding, genetics, and genomics; disease and insect resistance; and drought, salt, and heat tolerance.