

Name	Supervisor	Expertise
Akbarshahat, Ali	Arjmand	Synthesizing graphene and graphene oxide to develop conductive polymer-based biosensing nanocomposites. Also, graphene quantum dots and cellulose synthesis
Ali, Abdulbasit	Liu, Zheng	Applying computer vision to shipping industry.
Bajestan, Ehsan	Arjmand	Application of nanotechnology and microfluidics in the fields of thermal management of systems, sensors, biomechanics, and renewable energy.
Bicakci, Kor Gokce	Ekicioglu	A Marie Skłodowska-Curie Post-doctoral Research Fellow. Investigating the occurrence and transformation of target pharmaceutical and personal care products by applying an innovative and energy-efficient radio frequency sludge pretreatment, followed by anaerobic digestion moving towards non-toxic environment.
Cherian, Chinchu	Siddiqua	Valorization of pulp and paper mill by-products for potential utilization as raw material in the sustainable construction and geotechnical engineering applications.
Chhipi Shrestha, Gyan	Hewage	human health and environmental risk analysis, urban water management, water-energy nexus, carbon capturing technologies, life cycle analysis, and decision analysis.
Gao, Xuan	Li	
Haddadi, Seyyedjarash	Arjmand	Working on development and characterization of auxetic polymers and shear thickening fluids, polymer processing, advanced nanocomposites and corrosion science.
Hajiraissi, Roozbeh	Golovin	Phenomenological rheology, polymer processing, and interface.
He, Huiqing	Liu, Jian	Advanced materials for Li-ion batteries and next-generation batteries
Hu, Guangji	Sadiq	Research mainly focuses on cleaner production in the oil and gas industry. More specifically, I worked on projects related to hazardous refinery oily sludge recycling, environmental friendly unconventional gas production, and environmental system engineering.
Ismail, Umar	Brinkerhoff	
Issa, Anas Salem	Alam	Developing smart bracing systems to reduce seismic damages and keep structures serviceable after an earthquake.
Janfaza, Sajad	Hoorfar	Working on nanostructured microfluidic sensors
Karunathilake, Hirushie	Hewage	Renewable energy integration in urban systems
Khan, Ashraf Ali	Eberle	
Khosrozadeh, Ali	Liu, Jian	Electrode materials for electrochemical energy storage devices
Li, Shuai	Alam	Developing guidelines for highway bridges to prevent unseating of spans during earthquakes by utilizing smart materials like shape memory alloys (SMAs).
Mohammadnavazi, Hassan	Hossain	Machine learning deep learning to improve the communication transceivers
Nadeem, Qurrat Ul Ain	Chaaban	Applications of random matrix theory in wireless communications, with focus on channel modeling, design and performance analysis of multi-antenna communication systems (Massive MIMO, Large Intelligent Surfaces).
Nisar, Ambreen	Golovin	Using natural, plant-based precursors to achieve oil-repellency, and developing durable oil-repellent textile finishes that do not utilize perfluorinated compounds utilizing nano particles.
Obeed, Mohamad	Chaaban	Optimizing multi-user visible light communication (VLC) networks, and to propose new techniques for alleviating VLC practical limitations such as coverage, mobility, blockage, etc.
Sharma, Keshab	Tefamarlam	
Sharma, Nidhi	Brinkerhoff	Computational fluid dynamics to study the onset of transition and evolution of turbulence, analysis of highly accurate and efficient finite difference schemes for direct numerical simulation of incompressible and compressible flows. Linear and non-linear instability analysis of turbulent flows.
Shotor bani, Amin	Wang/Hewage	Nonlinear control methods, operation and stability of power and energy systems, electrical energy management systems, smart grid, microgrids, and renewable integration systems.
Tahmasebi, Ehsan	Brinkerhoff	
Tiznobai, Mohammad	Alam	Advanced concrete technology, recycled construction materials and its application towards sustainable development.
Vijayakumari Nadaraja Pillai, Anupama	Roberts/Zarifi	Development of Microbial fuel cell system for harnessing electricity from agro-industrial waste water, process development for biological treatment of arsenic contaminated mine water; and application of microwave based sensors for environmental monitoring
Zhao, Xiaoxiao	Golovin	Surface modification such as superhydrophobic materials and liquid-repellent paper to replace traditional plastic membranes.
Zheng, Wenbo	Tannant	Geomechanics applied to deep earth energy extraction and subsurface infrastructure