

2018-19 AggieE_Challenge Project List

Course Section	Project Title	Faculty	Faculty Email
ENGR 485-501	CLEVERarm: An Upperlimb Rehabilitation Exoskeleton with Neural Human-Robot Interface, Enabling Immersive Training in Haptic Environments	Langari, Reza	rlangari@tamu.edu
ENGR 485-502	A Smart "Peer-Support" Wearable Technology for Veterans Diagnosed with PTSD	Sasangohar, Farzan	sasangohar@tamu.edu
ENGR 485-503	SpaceCRAFT	Chamitoff, Greg	chamitoff@tamu.edu
ENGR 485-504	Texas A&M Sounding RocketryTeam:an Aggie Challenge	Karpetis, Adonios	karpetis@tamu.edu
ENGR 485-505	Towards Multiscale modeling of Chemo-Mechanical CO ₂ -fluid-rock interactions	Abedi, Sarah / Noshadravan, Arash	sara.abedi@tamu.edu
ENGR 485-506	Membrane for Efficient Solar-driven Clean Water Evaporation	Cheng, Zhengdong	zcheng@tamu.edu
ENGR 485-507	Additive Biomanufacturing: Emerging Approach for Designing Anatomical-Size Human Organs	Gararwar, Akhilesh	gaharwar@tamu.edu
ENGR 485-508	Advancing Health and Education through Intelligent, Intuitive, and immersive Algorithms, User Interfaces, and Wearables	Hammond, Tracy	hammond@tamu.edu
ENGR 485-509	Biomimetic Engineering of Venous Thrombosis	Jain, Abhishek	
ENGR 485-510	Disaster Informatics Solutions: Integrating Human and Machine Intelligence for Resilient Infrastructure and Smart Emergency Relief	Mostafavi, Ali	amostafavi@civil.tamu.edu
		Hu, Xia	
ENGR 485-511	Plant Stress Response and Nitrogen Monitoring System in Greenhouse	Xiaoning Qian, Jun Zou	xqian@tamu.edu
		Byul Hur	
ENGR 485-512	A Low-Cost Motion Capture System using Smartphones to Resolve Healthcare Issues in Low-Income Countries	Hur, Pilwon	pilwonhur@tamu.edu
ENGR 485-513	Understanding Performance and Enhancing Resilience of Coastal Communities Impacted by Hurricanes	Koliou, Maria	maria.koliou@tamu.edu
ENGR 485-514	Engineering novel membranes for energy-efficient water desalination	Wang, Shiren	s.wang@tamu.edu