Nevada NSF EPSCoR RII Track-1 Program Letters of Intent

PI Last Name	PI First Name	PI Institution	PI Email	Title of Project	Research Keywords
Alexis	Kostas	UNR	kalexis@unr.edu	Robotically Added Value in the Wild: Research Challenges and Societal Impact	Future of work at the human-technology frontier, robotics, machine learning, artificial intelligence, big data, data revolution, human-robot interaction, human/robot frontier, construction, manufacturing, assembly, mining, political sciences, environmental studies, disasters, wildfires,
Das	Biswajit	UNLV	Biswajit.Das@unlv.edu	Infrastructure Improvement for Research and Education in Self-Driving Automobiles	autonomous vehicles, self-driving cars, autonomous technologies
Gertler	Alan	DRI	alang@dri.edu	Promoting green economic development solutions in Nevada: Integrating cross-disciplinary research to quantify and model the mechanisms, causes, and consequences of growth	Economic growth and development, built environment, urban planning, water, energy, climate change, human health, ecosystem impacts, sustainability
Hudson	James	DRI	hudson@dri.edu	Cloud and Aerosol Impacts on Arctic and Mid-latitude Climate and Water Resources	Arctic, Arctic amplification, climate, weather, mid-latitude, sea ice, snow, albedo, clouds, cirrus, jet stream, storm track, planetary waves, heat transport, moisture transport, ridging, severe storms, satellite remote sensing, stratospheric warming, indirect aerosol effect, air pollution, cloud condensation nuclei (CCN), precipitation, bimodality, stratus clouds, cumulus clouds, Northern Hemisphere, ice nuclei, glaciers, dust, black carbon, water resources, drought, climate modeling, cyberinfrastructure, education, economics, ethics.
Kim	Kwang	UNLV	kwang.kim@unlv.edu	Nevada Biomimetic and Soft Robotics (BioSoRo) Consortium	Biomimetics, robotics and controls, environmental science, smart materials, biomechanics, biological science, instrumentation, advanced manufacturing, artificial intelligence, big data
Moosmüller	Hans	DRI	hansm@dri.edu	Harnessing the Data Revolution for the Science and Management of Wildfires	Data revolution, sensor networks, disasters, wildfires, wildfire processes, wildfire effects, fire ecology, fire hydrology, smoke emissions and chemistry, air quality, smoke exposure
Pagilla	Krishna	UNR	pagilla@unr.edu	Water-Economy Nexus – Strategies and Approaches to Maximize Economic, Social, and Environmental Benefits	water-economy nexus, water resources, water footprint, economic output, social benefits, environmental benefits
Pravica	Michael	UNLV	pravica@physics.unlv.edu	Creating novel materials for the 21st Century	novel synthesis, materials science, x-ray photochemistry, UV photochemistry, solid state chemistry, chemistry at extreme conditions, direct energy conversion device, wide band gap semiconductors, solar cells, solar conversion, novel doping methods, ion beam nuclear transmutation doping
Zhan	Justin	UNLV	justin.zhan@unlv.edu	AI-Energy: Artificial Intelligence and Data Driven Renewable Energy Optimization in Nevada	Artificial Intelligence, Big Data, Renewable Energy
Zhan	Justin	UNLV	justin.zhan@unlv.edu	NEVADA BigData Consortium: Meeting Big Data Challenges through Research, Education, and Innovation	Big Data, Smart Health, Environmental Changes, Advanced Mobility, Advanced Manufacturing