## **USEF 2021- Senior Division**

Category and Rank	Name	School	Project Title
			Mental Health during Covid-19: The Role of
Behavioral & Social Science- First	Yvonne Kim	West High	Knowledge and its Sources
Behavioral & Social Science-	Nathan Flores & Susan		Lating Disparities in Developing Personage and
	Arcos Flores	SLCSE	Latino Disparities in Psychological Resources and Treatment
Second	Arcos Fiores	SLCSE	Treatment
Behavioral & Social Science- Third	Emma Baker	Juan Diego Catholic High School	Social Referencing in Ferrets
benavioral & Social Science Third	Emma baker	Jaan Biego cathone riigh School	To What Extent Has Diversity in College Admissions
			Personnel Affected the Diversity in the Student
Behavioral & Social Science- Fourth	Mark Stevens	Juan Diego Catholic High School	Population of that College
			How do specific mutated genes affect metabolic
Biology and Microbiology- First	Aiden Pasinsky	Beehive Science and Tech Academy	functioning in Prochlorococcus?
			Using BLASTp to Determine the Effectiveness of
Biology and Microbiology- Second	Dora Meiwes	West High	Influenza Vaccines
D. 1 184: 1:1 71:1			
Biology and Microbiology- Third	Irvane Nelson	Juan Diego Catholic High School	Amino Acids on Insulin Secretion in Beta Cells
Biology and Microbiology- Fourth	Kaiser Welch	Blue Peak High School	Algae Scrubber
			A Novel Continuous Electrostatic- Capacitive
			Desalination System Inspired by Biomimicry of Marine
Civil & Environmental Engineering-			Teleosts's Chlorine Cells Designed for Economical
First	Warren Ellsworth	Hillcrest High School	Saltwater Deionization
			Inhibiting the Main Protease of SARS-CoV-2 with
Chemistry & Biochemistry- First	Aymeric Blaizot	Juan Diego Catholic High School	Peptides
	_, ., .		Determining the Efficacy of Carbon 2'-Ribose
Chemistry & Biochemistry- Second	Thomas Varghese Tynli Moore & Jasmine	Juan Diego Catholic High School	Modifications  Arc and Zif in relation to age-related differences in
Chemistry & Biochemistry- Third	Aguilar	Juan Diego Catholic High School	habit formation
Chemistry & Biochemistry Third	/ iganar	Jaan Biego cathone riigh Jenoor	Predicting Molecular Phenotypes with Single Cell RNA
Computer Science & Applied			Sequencing: an Assessment of Unsupervised Machine
Computational Methods - First	Anastasia Dunca	West High	Learning Models
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Computer Science & Applied		Beehive Science and Technology	An Early and Cost-Effective Diagnosis of Melanoma
Computational Methods- Second	Aarav Singh	Academy	Using Deep Learning Methods
Computer Science & Applied		L.,	
Computational Methods-Third	Ronak Agarwal	West High	Modelling Darwinism with Calculus
Computer Science & Applied			Optimizing the Detection and Analysis of Ultrasonic
Computational Methods- Fourth	Connor Cutshall	Juan Diego Catholic High School	Vocalizations
·			Use of Collaborative Robotics in Mass Production of
Electrical Engineering- First	Nathaniel Loveless	West High	Freehand Components
			·
Electrical Engineering- Second	Jameson Thackeray	Murray High School	Slip-Guard Alarm
Electrical Engineering-Third	Gabriel Min	Skyline High	Handwashing Sensor
Flooring Foreign and the French	Martin Mendoza	Dhua Baak High Cah!	DiveCovitele
Electrical Engineering- Fourth	Montes	Blue Peak High School	BlueSwitch
	Dusan Cmith & Jack		Heara of Cranhana Shaating to Baduca Brica and
Energy Chemical & Physical First	Dyson Smith & Joshua	Pluo Book High School	Usage of Graphene Sheeting to Reduce Price and Weight of Soft Personal Ballistic Protection
Energy: Chemical & Physical- First Energy: Chemical & Physical-	Cropper	Blue Peak High School	Use Bi2Te3 and Bi0.5Sb1.5Te3 to create flexible
Second	Luke A. Ussing	Blue Peak High School	Thermoelectric Generators.
Earth & Environmental Science-		United to 1	Locking Down: The COVID-19 Pandemic and Air
First	Caleb Grow	Jordan High School	Pollution in Salt Lake City

Earth & Environmental Science-			An Analysis of Air Quality Predictions Through
Second	Wentao Zhang	Hillcrest High School	Machine Learning
Earth & Environmental Science-		Academy for Math, Engineering	
Third	Gudon Abdi	Science	Biocharging Plants
			A Novel Compositional-Structural Attention-Based
Mechanical & Materials			Machine Learning Network to Predict Material
Engineering- First	Marianne Liu	West High	Properties
Mechanical & Materials			
Engineering- Second	Collin Stanley	SLCSE	Knee Brace Exoskeleton
			Exploring a Ring-Based Non-Invasive Technique for
Medicine, Health Sciences, &			Long-Term Human Cardiac and Cardiovascular Health
Biomedical Engineering- First	Brendon Young	West High	Monitoring
			Non-severe Bleeding Harm in Patients Undergoing
Medicine, Health Sciences, &			Combined Anticoagulation and Antiplatelet Therapies
Biomedical Engineering- Second	Emilie Etchart	Juan Diego Catholic High School	for Treatment of Venous Thromboembolism (VTE)
			Targeting CDK9-dependent super-enhancers addiction
Medicine, Health Sciences, &			in prostate cancer models with orally available small
Biomedical Engineering- Third	Saisha Vankayalapati	Hillcrest High School	molecules
NA - dising the black Coing and C			The level of the district View of Chart Town
Medicine, Health Sciences, &			The Involvement of Heredity in Visual Short-Term
Biomedical Engineering- Fourth	Evan Lee	Juan Diego Catholic High School	Memory
			Crasning Costures: Analyzing the Aesthetics of Dance
Discosina Astronomo O Math. Finat	NA-laudha Chash	W+11:-h	Grasping Gestures: Analyzing the Aesthetics of Dance
Physics, Astronomy & Math- First	Malavika Singh	West High	Through the Lens of Physics & Computer Science
Physics, Astronomy & Math-			French Horn Brass Mouthpiece with Optimal
Second	Cameron Kenison	Blue Peak High School	Performance on all Registers of the Horn
Jecoa	Cameron Remoon	Dide Fedit High School	reformance on an negisters of the from
Physics, Astronomy & Math Third	Destiny Zank	Hillcrest High School	Breaking the Barrier With Rubber Bands?
Plant Sciences- First	Kalli Bo	Judge Memorial Catholic High School	Do Plants Get a Sun Tan?