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Joint Science and Technology Institute

PROGRAM STAFF

Resident Teachers

Wesley Bryant, Gary Cipinko, Kristy Hutson,
Steven Montoya, Carol Ochsner

Alumni

Peter Escamilla, Kaylee Haddox

ORISE Staff

Natalie Parsons, Cinnamon Martin,
Jennifer Tyrell



June 8-21, 2024

University of New Mexico

- 8:30 a.m. Welcome**
Natalie Parsons
Project Manager, ORISE
- 8:35 Opening Remarks**
Jennifer London
Staff Director, DTRA

Kaylee Haddox
JSTI Alumni
- 9:00 Presentations by Research Groups**
- 9:35 Presentation of Certificates**
Jennifer London
Staff Director, DTRA

Natalie Parsons
Project Manager, ORISE
- 9:55 Closing Remarks**
Jennifer Tyrell
Associate Manager, ORISE
- 10:00-10:45 Brunch**



Joint Science and Technology Institute

RESEARCH PROJECTS

Automating Experimental Procedures

Sandia National Lab

Division: 1000

Mentor: Nha Uyen Huynh

Assistants: Melissa Louie and Kim Haulenbeek

Students:

Elijah Carr
Andrew Connolly

Juliana Lucero
William Stetson

Cindy Gonzalez

Climate Warriors: Microbes at Work

Los Alamos National Laboratory

Division: Bioscience Division (I-BIOME)

Mentor: Sangeeta Negi and Buck Hanson

Assistants: Eric Moore, Leah Johnson, Emily Boak, Shounak Banerjee, Joe Sanchez, Daniel Trettel, La Verne Gallegos-Graves, Erika Quezada, Miriam Hernandez-Romero, Gabriel Smith

Students:

Emily Penney
Colton Leonard

Gavin Grills
Gianna Zhang

Erica Dorbin

Emergency Response to Chemical, Biological, Radiation, Nuclear, and Explosives (CBRNE) Incidents

Los Alamos National Laboratory

Division: EM-Resp

Mentors: Jason Martinez and Chris Barondeau

Assistants: Chris Rittner, Kevin Brake, Gaylon Holder, Brandon Williams, Aaron Waller, Jessica Bishop, Lawrence Holterman, Isaiah Valdez, Ryan Berg, Pedro Hernandez

Students:

Jarin Earle
Evan Clough

Samuel McAlpin
Sarah Richards

Suzanne Xu

From Classical Microbiology to Next-Generation Sequencing: Physiological and Genomic Characterizations of Bacterial Isolates

Los Alamos National Laboratory

Division: Bioscience

Mentor: Armand Dichosa

Assistants: Aaron Robinson, Earl Middlebrook, Julia Kelliher, Mark Flynn, Anand Kumar, Andrew Bartlow, Migun Shakya, T. Buck Hanson, Aaron Waller, Cheryl Gleasner

Students:

Lana Nguyen
Mia Ricci

Bethanie Bryant
Katherine Schoenwald

Lily Phat
Samira Jacob

Improving Radiological Hand-held Detector Training Devices

Los Alamos National Laboratory

Division: Research and Development Directorate, Test and Assessment Department

Mentor: Allison Hedrick

Assistants: Anthony Ryd, Kristina Durham, James Ray, MAJ Steven Buhler, LT Michael Holguin, Lyndon Wrighten, Capt Joseph Brown, Dave Morrow, Waylon Weber, Ryan Field, Aliyah Matthews, Sheera Lum, Hayden Williams

Students:

Johnston Lai
John McGivern

Ian Wald
El Titus

Luke Morrison
Ixchel Palacios

Spam Detection Using Machine Learning

Sandia National Lab

Division: MPA-CINT

Mentor: Meifan Chen

Assistants: Bryan Arguello, Carol Chen, Brian Gaume, Tian Ma, Doug McGeehan, Anton Sumali

Students:

Rena Alailima
Saharsh Bhargava

Somrat Sen

Megan Nguyen

Material Matter: Dissecting the Engineering Design of Trending Drinkware

Los Alamos National Laboratory

Division: MPA-CINT

Mentor: Ben Derby

Assistants: Franziska Schmidt, Dean Morales, Kyungtae Kim, Adi Shivprasad, Bernard Gaskey, Jesse Callanan

Students:

Darin Hilton
Sabrina Cordero

Sutton Jaeger
Sage Hofmann

Ryan Look