

# 2025 Student Research Symposium



## GSA Poster Competition 1

Tuesday, April 22, 10am-12pm, OSL Area, Skeen Library

| SRS Number: | Project Title:   | Presenter(s):             |
|-------------|--|---------------------------|
| SRS2025-001 | Enhancing Aqueous Organic Redox Flow Batteries: Degradation & Mechanism Study                              | Md Shahriar Hasan         |
| SRS2025-005 | Density-Driven Formation Control of a Multi-Agent System with an Application to Search-and-Rescue Missions | Mohammad Afrazi           |
| SRS2025-008 | Impact of Thermal Gradient on Interfacial Energy and its Anisotropy in Al-Cu Alloy                         | Amrutdyuti Swamy          |
| SRS2025-009 | Quadruped Robot Locomotion in Limited Sensor Environments Using Reinforcement Learning                     | An Nguyen                 |
| SRS2025-010 | Microfluidic-based detection of emerging cardiovascular bio-marker phospholipase A2                        | Dhanika Senavirathna      |
| SRS2025-016 | Machine Learning for Characterization of Multicolored ZnS Mechanoluminescent Composites                    | Matthew Moore             |
| SRS2025-020 | New Cu-Mo Porphyry Exploration Targets in Takla Group - Hogen Suite Northwest British Columbia             | Zohreh Kazemi Motlagh     |
| SRS2025-021 | Geodesic Path Planning using Exponential Map with Injectivity Radius                                       | Mahsa Soroori Khosroshahi |

| SRS Number: | Project Title:   | Presenter(s):                    |
|-------------|--|----------------------------------|
| SRS2025-023 | The Effects of Phleomycin on P. aeruginosa and S. maltophilia Biofilms   | Bianca Wanamaker                 |
| SRS2025-031 | CFD Analysis and the Effect of Bright Coloration on Flight Efficiency of Dandelion-Inspired Flying Sensors       | Gifty Quayson and Matteo Orlando |
| SRS2025-066 | Numerical Plume Simulation And Velocity Normalization  | Tucker Barraclough               |
| SRS2025-070 | Transfer Learning-based Culvert Sitling Condition Classification   | Hemanth Madduri                  |
| SRS2025-078 | Acoustofluidics for Separation and Purification of Heavy Metal Adsorbed Microplastics in the Aquatic Environment | Nipuni De Silva                  |
| SRS2025-086 | XRN2-PARP1 Interplay in Preventing Genomic Instability: Structure-Function Analysis                              | Miti Mathur                      |
| SRS2025-089 | Bio-inspired Hierarchical Compliance for the development of a Climbing Robot                                     | Matthew Tyrrell and Jakobe Ochoa |