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## CWU College of the Sciences Undergraduate Research Grants

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### Sample Budget and Budget Justification

**Project Title: Metal Composition of Soils in the Central Washington Plateau.**

**Budget (rounded to nearest dollar)**

<b>Description</b>	<b>Actual Cost (\$)</b>	<b>Amount pending/received from other sources (\$)</b>	<b>Amount requested from Undergraduate Research(\$)</b>
1. Teflon Beakers and test tubes	50.00	0.00	50.00
2. Chemicals	300.00	100.00	200.00
3. Analytical Expenses	1000.00	750.00	250.00
<b>TOTAL</b>	<b>1350.00</b>	<b>850.00</b>	<b>500.00</b>

**Budget Justification:**

1. \$50.00 is requested to offset the cost of teflon beakers and test tubes needed to conduct the proposed experiments. Teflon is required because it does not bind metals (glass test-tubes do bind metals).
2. Chemicals, including ultrapure nitric and hydrochloric acids, are required to solublize the metals to be analyzed in the proposed experiments. \$200.00 is requested from the COTS Undergraduate Research Grants. My faculty mentor will provide the remaining \$100.00 from her funded research (American Association of Petroleum Geologists grant).
3. Inductively-coupled plasma mass spectrometry analyses are required to characterize the chemical evolution of the samples by measuring metals. Twenty samples will be analyzed, and the approximate cost of consumables for sample preparation and instrument use (glassware, cones, carrier gas) is \$50.00 per analysis. \$250.00 is requested to offset expenses related to these analyses, with the remainder coming from my faculty mentor's supported research program.