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**Title:** Working in the Plutonium Facility at Los Alamos National Laboratory

**Author(s):** Stanger, Kolby Michael

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# Working in the Plutonium Facility at Los Alamos National Laboratory

Kolby Stanger – Actinide Material  
Processing & Power 4

September 14<sup>th</sup>, 2023

# Overview

## Working at LANL

- Life in the Los Alamos Area & Life at the Lab

## Work at TA55 Plutonium Facility

- Work being done at LANL's Plutonium Facility

## AMPP: Actinide Material Processing & Power

- Overview of the AMPP Groups

## Jobs & Descriptions

- Offered Positions & Education Requirements

## Benefits & compensation

- Overview of LANL's Competitive Benefits Offerings

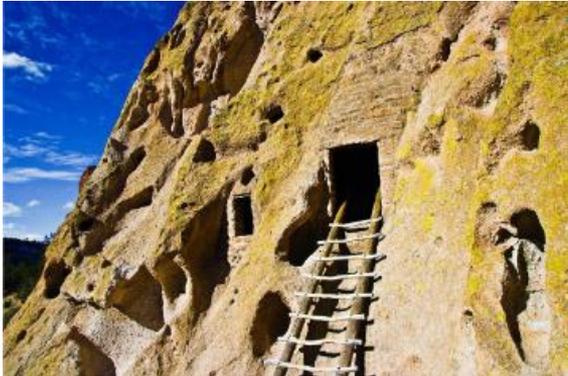
# Working at LANL

# Where is LANL Located?

- Distance to nearby Cities:
  - 45 minutes from Santa Fe
  - 90 minutes from Albuquerque
  - 6 hours from Denver, CO
  - 5 hours from Amarillo, TX
  - 6 hours from Flagstaff, AZ
- Nearby National Parks:
  - Bandelier National Monument
  - White Sands Missile Range
  - Valles Caldera National Preserve
  - Manhattan Project National Historical Park

# Things to do in/near Los Alamos

- Several Museums & Historical Sites
- Summer Concert Series
- Skiing/Snow Boarding
- Hiking/Mountain Biking
- Beautiful Scenery



# Los Alamos National Lab - Overview



Veterans  
**6.7%**

Individuals  
with disabilities  
**4.3%**

Total Employees  
**12,304**

75.6%  
Regular/Term



Female  
**32.4%**  
Male  
**67.6 %**



- 1.8% American Indian, Alaskan Native, Native Hawaiian, or Other Pacific Islander
- 5.3% Asian
- 1.4% Black or African American
- 37.8% Hispanic or Latino
- 1.4% Two or more races
- 52.1% White



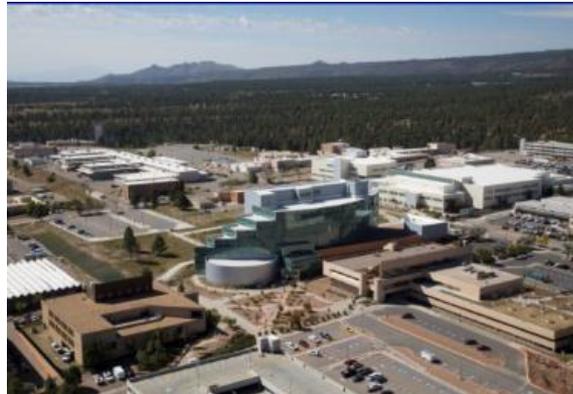
# Work at Los Alamos National Lab

- Science, Technology, and Engineering
  - Global Security
  - Physical Sciences
  - Chemical, Earth & Life Sciences
- Deterrence
  - Weapon Physics
  - Weapon Engineering
  - Weapon Production
- Operations
  - Environment, Safety, Health, Quality, Safeguards and Security
  - Capital Projects
  - Business Management
  - Facilities & Operations



# Types of Work We Do

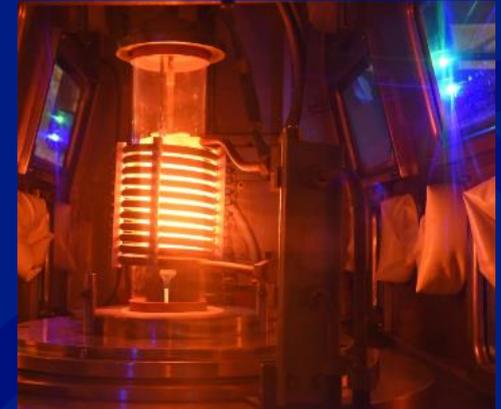
- Safety Analysis
- Hands on Work
- Computer Simulation
- Code/Program Development
- Environmental Impact
- Archeology
- Research with NASA
- Nuclear Research



# Work at TA55's Plutonium Facility

# Our mission: To solve national security challenges through simultaneous excellence.

- LANL's Primary Focus is the Development & Production of Pits
  - Creating Nuclear Material Component of Weapons
- Supporting Organizations
  - NDA (Non-Destructive Analysis)
  - Research
  - Chemistry
  - Facility Control
  - Waste
  - Safety

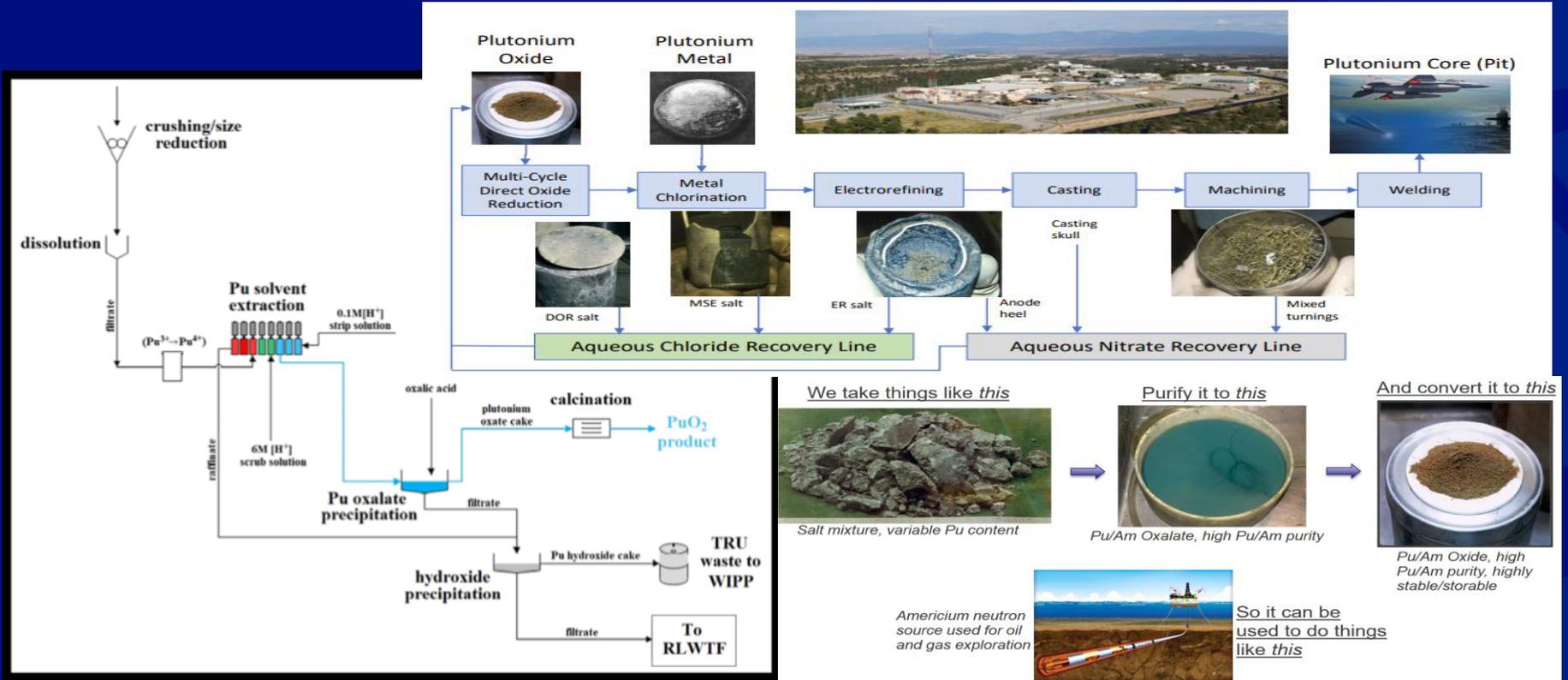


# AMPP: Actinide Material Processing & Power

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- AMPP-3 ARIES
  - Supports nuclear non-proliferation & disarmament by using LANL's Advanced Recovery and Integrated Extraction system
- AMPP-4 Materials Recovery & Recycle
  - Promotes and enhances the nation's ability to perform actinide process chemistry, dispositions unneeded weapons components & disposes of excess fissile material to deter global proliferation activities
- AMPP-5 & 6 Power Supply Production, Assembly & Product Characterization
  - Processing of material for Radioisotope Thermal Generators (RTGs) to be used in NASA space missions.

# AMPP-4 In-Depth: Aqueous Chloride & Aqueous Nitrate

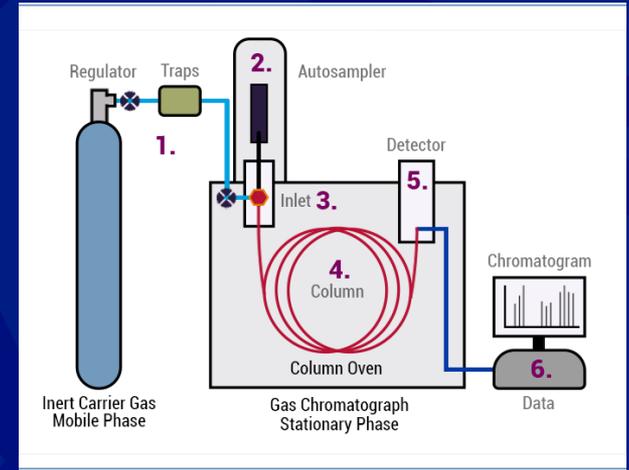


# AMPP-4 In-Depth: Rods & Residues/Special Materials Stabilization

- Stabilization of Pu Residues, Oxides & metals
- Direct Metal Oxidation & Calcination
- RCD (repack, consolidation & discard) of nuclear waste
- Managing transportation & processing of fuel rods

# AMPP-4 In-Depth: Science & Engineering

- Container Surveillance & Monitoring for long term storage of Pu
- Analysis of gasses produced using Small & Large Scale Gas Chromatography & Mass Spectrometry
- Microscopic analysis of corrosion created by gases
- RCD of nuclear waste & legacy items



# Jobs & Descriptions

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## Research Technician

- Glovebox Operator
- Fissile Material Handler
- Provides hands on support for R&D activities

## Research Technologist

- Glovebox operator
- Fissile Material Handler
- Contributes to development & completion of projects & experiments
- Bachelors Degree from accredited institution Required

## R&D Engineer

- Glovebox Operator
- Fissile Material Handler
- Process Engineer/CSE
- Bachelors Degree in Engineering Required

## R&D Scientist

- Glovebox Operator
- Fissile Material Handler
- Leads a research team & develops experiments to be performed
- BS or MS Required

# Jobs & Descriptions– Pay Scales

Job Code	Job Family	Job Title	FLSA	Min	Mid	Max
LAB-0T4811	S&E Support	Research Tec 1	NEX	\$46,300	\$58,800	\$71,400
LAB-0T4812	S&E Support	Research Tec 2	NEX	\$51,200	\$64,800	\$78,700
LAB-0T4813	S&E Support	Research Tec 3	NEX	\$61,600	\$79,000	\$96,500
LAB-0T4814	S&E Support	Research Tec 4	NEX	\$67,800	\$87,400	\$107,700
LAB-0T4815	S&E Support	Research Tec 5	NEX	\$81,700	\$107,400	\$133,100

Job Code	Job Family	Job Title	FLSA	Min	Mid	Max
LAB-0P4911	Research	Research Technologist 1	EX	\$81,700	\$107,400	\$133,100
LAB-0P4912	Research	Research Technologist 2	EX	\$90,000	\$118,600	\$147,100
LAB-0P4913	Research	Research Technologist 3	EX	\$99,200	\$131,700	\$164,100
LAB-0P4914	Research	Research Technologist 4	EX	\$109,100	\$145,600	\$182,000

Job Code	Job Family	Job Title	FLSA	Min	Mid	Max
LAB-0R5111	Science&Engineering	R&D Engineer 1	EX	\$90,000	\$118,600	\$147,100
LAB-0R5112	Science&Engineering	R&D Engineer 2	EX	\$99,200	\$131,700	\$164,100
LAB-0R5113	Science&Engineering	R&D Engineer 3	EX	\$119,200	\$160,200	\$201,100
LAB-0R5114	Science&Engineering	R&D Engineer 4	EX	\$143,100	\$195,700	\$248,200
LAB-0R5115	Science&Engineering	R&D Engineer 5	EX	\$171,600	\$239,300	\$307,000
LAB-0R5116	Science&Engineering	R&D Engineer 6	EX	\$195,500	\$293,300	\$391,100

Job Code	Job Family	Job Title	FLSA	Min	Mid	Max
LAB-0R5121	Science&Engineering	Scientist 1	EX	\$90,000	\$118,600	\$147,100
LAB-0R5122	Science&Engineering	Scientist 2	EX	\$99,200	\$131,700	\$164,100
LAB-0R5123	Science&Engineering	Scientist 3	EX	\$119,200	\$160,200	\$201,100
LAB-0R5124	Science&Engineering	Scientist 4	EX	\$143,100	\$195,700	\$248,200
LAB-0R5125	Science&Engineering	Scientist 5	EX	\$171,600	\$239,300	\$307,000
LAB-0R5126	Science&Engineering	Scientist 6	EX	\$195,500	\$293,300	\$391,100

# Benefits & Compensation

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## Best in class 401k contribution

- Dollar for dollar match up to 6%
- Non-Elective contribution of 3.5%
- Total of 9.5% initially

## Types of Insurance

- Medical
- Dental
- Vision
- Legal
- Life
- Disability
- AD&D

## Paid Parental leave

- 12 week fully paid maternity leave
- 4 week fully paid parental leave

## Wellness Program

- Lab-wide incentive to live a healthier lifestyle. Earn points and be financially rewarded quarterly

## Paid Time Off

- 5 weeks (200 hours) of PTO accrual annually
- 10 paid government holidays (80 hours)
- 2 weeks (80 hours) of Compassionate Care