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Title:	ASTERIX & LANL Experiences
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Intended for:	Presentation on LANL experiences through the ASTERIX Consortium for the ASTERIX Consortium meeting at Florida International University with LANL
Issued:	2023-07-25

ASTERIX & LANL EXPERIENCES

SOFIA PINZON

Los Alamos
NATIONAL LABORATORY

ASTERIX TIMELINE

ASTERIX Program
FIU
January 2021

UGA Researcher Position
LANL
May 2021

B.S. Electrical Engineering
FIU
Summer 2021

GRA Researcher Position
LANL
Fall 2021

M.S. Electrical Engineering
FIU
Fall 2022

Job Offers
MPA-11, E-2, & Q-6
LANL
October 2022

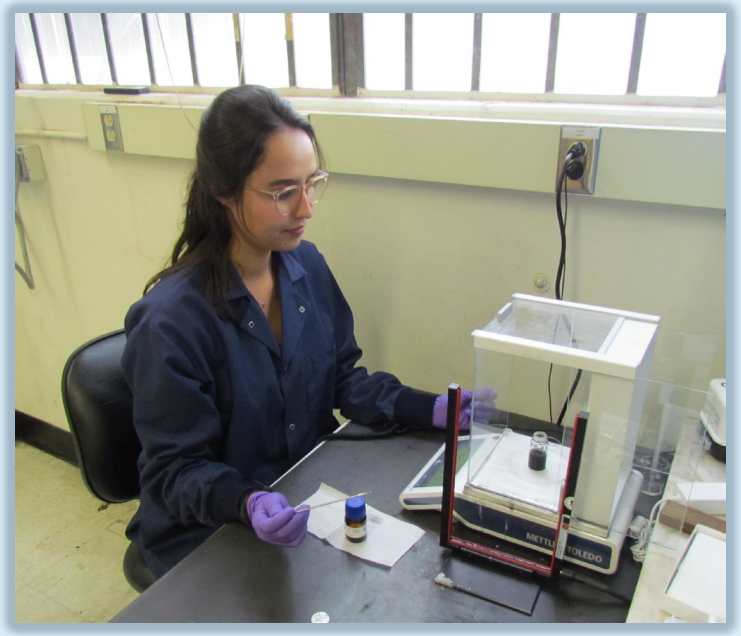
Accepted
E-2
R&D Engineer 2
November 2022

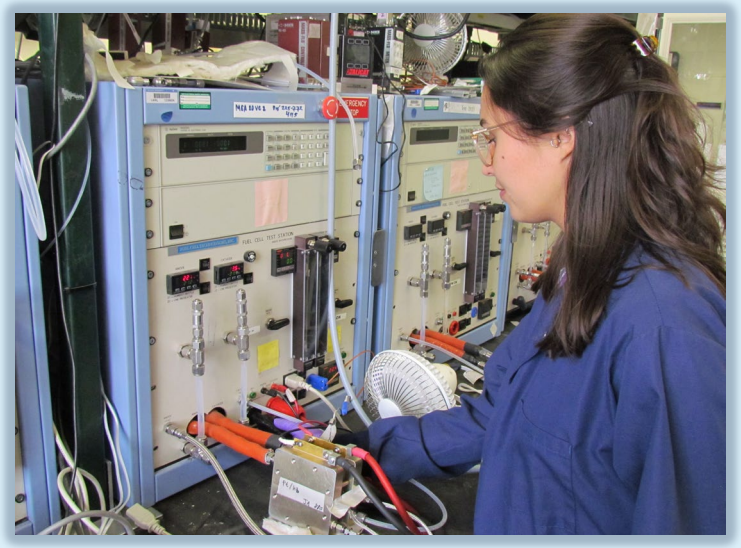
FIU Engineering & Computing
Florida International University

Los Alamos National Laboratory

GRADUATE RESEARCH ASSISTANT

- Fuel Cells
  - Fabrication and characterization of Pt inks
  - Fabrication and characterization of MEAs
- Thin Films
  - Fabrication of thin films using PVD
  - Characterization of thin films
  - Assembly of new PVD system
- Mentoring
  - Collaborating and assisting FIU senior design teams
  - Assisting new summer students





THIN FILMS RESEARCH

RESEARCH ARTICLE | MARCH 24 2023

Effects of processing parameters on the morphologies of complex sesquioxide thin films

Sofia K. Pinzon ; James A. Valdez ; Vancho Kocevski ; J. K. Baldwin ; Blas P. Uberuaga ; Cortney R. Kreller ; Benjamin K. Derby

Check for updates

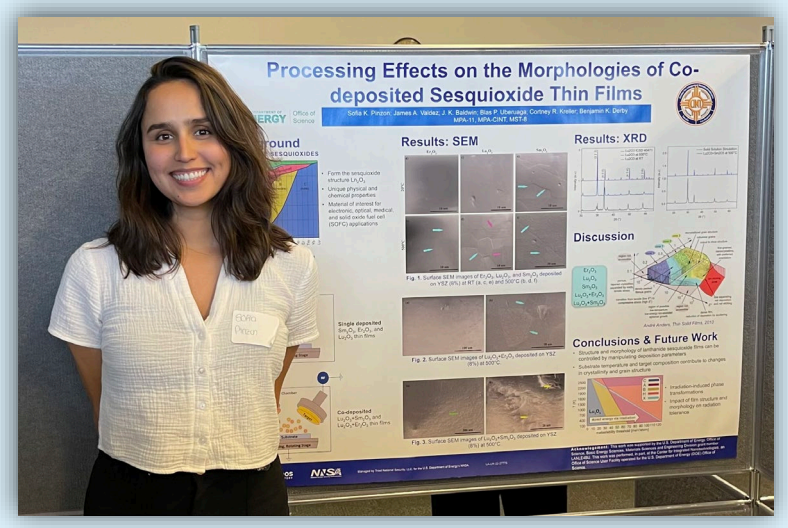
Journal of Vacuum Science & Technology A 41, 033404 (2023)
https://doi.org/10.1116/6.0002398

R&D ENGINEER

Los Alamos NATIONAL LABORATORY

- E-2: Modern Manufacturing Methodologies
- Aerosol Jet Printing
- Additively manufactured tamper evident container
- And much more!!!

ASTERIX/LANL EXPERIENCE



- Specialized hands-on learning and experience
- Exposure to different projects
- Collaboration with other scientists/engineers/students
- Expand network
- Access to many resources