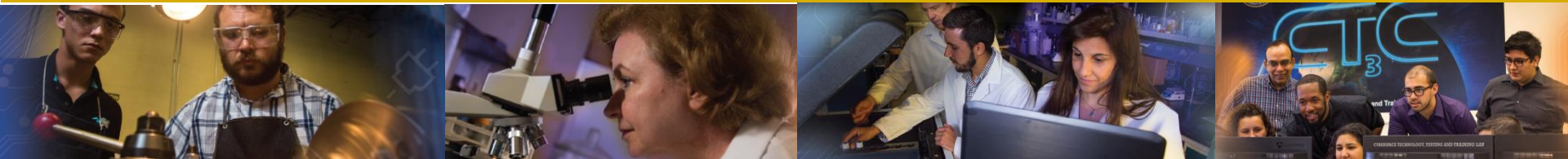




FIU PROJECT 4: DOE-FIU SCIENCE AND TECHNOLOGY WORKFORCE DEVELOPMENT PROGRAM

Leonel Lagos





FIU Personnel and Collaborators



Principal Investigator: Leonel Lagos

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DOE National Laboratories



Program Description

FIU's Applied Research Center (ARC) and the US Department of Energy's Office of Environmental Management have established a workforce development program for the training of FIU STEM, minority students in an effort to create a "*pipeline*" of scientists and engineers that will enter DOE's workforce upon completing their degrees and research at FIU.



Workforce Development Program

Site Needs:

A significant portion of the EM workforce, including DOE as well as contractors, is at or nearing retirement age, contributing to a shortage of a well-trained technical workforce to continue EM's mission.

Year 9 Objectives:

Providing a pipeline of FIU STEM minority students trained and mentored to enter the DOE workforce in technical areas of need - the DOE Fellows traineeship program.

Present Tasks:

- Recruitment of qualified talented FIU minority STEM students as new DOE Fellows
- Engagement in DOE EM research (Projects 1, 2, 3)
- Poster exhibition & competition
- Annual DOE Fellows induction ceremony
- Summer internship program and summer internship technical reports
- Conference participation & presentations
- DOE Fellows lecture series forum
- Promote career opportunities



Workforce Development Program



Accomplishments Year 9:

- Provided hands-on research at FIU
- Started 15 internships for summer 2019 for a total of 151 internships
- DOE Fellow completed a one year internship with IAEA
- Conducted the 12th induction ceremony for a total of 152 inducted as DOE Fellows
- Fellows participated in WM19 and several other conferences and events. Have presented over 250 papers and posters at national/international conferences
- Held the 12th DOE Fellow Poster Exhibition at FIU at which 175 research posters have been presented.





Hansell Gonzalez-Raymat

FIUApplied Research
Center

DOE Fellow, **Dr. Hansell Gonzalez-Raymat (Class of 2013)**, accepted a position at the Department of Energy's Savannah River National Lab as Sr. Scientist.

- Hansell completed two summer internships at DOE's SRNL.
- Published his research in peer-reviewed journals and presented at numerous conferences.
- Won the best Student Poster Track at Waste Management Symposia 2018.



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Workforce Development Program

Proposed Scope for Year 10



Active hands-on research assisting ARC scientists/engineers during the execution of DOE-EM research - integrating education with practical experience in the DOE EM problem areas.

- Recruitment of qualified talented FIU minority STEM students
- Engage in DOE EM research (Projects 1, 2, 3)
- Poster exhibition & competition (November 2019)
- Annual DOE Fellows induction ceremony (November 2019)
- Summer internship program
- Summer internship technical reports
- Conference participation & presentations, including WM Symposia 2020
- DOE Fellows lecture series forum
- DOE EM HBCU collaboration/interactions
- Extend recruitment to include HBCU/MSI students interested in PhD at FIU
- Work closely with DOE nat. labs to identify opportunities for PhD students
- Identify extended work assignments for FIU graduate students at DOE nat. labs that can lead to post-doctoral positions