

FIU

Applied Research
Center



DOE-FIU Cooperative Agreement Annual Research Review – FIU Year 1

PROJECT 4

DOE-FIU Science & Technology Workforce Development Initiative

Worlds
Ahead

Advancing the research and academic mission of Florida International University

FIU Personnel and Collaborators

Program Director: Leonel Lagos

Program Manager: Ravi Gudavalli

Faculty/Staff: Walter Quintero, Clint Miller, Angelique Lawrence, Anthony Abrahao

DOE Fellows: Adrian Muino*, Alexis Vento*, Alicia Maratos*, Angel Almaguer, Aubrey Litzinger, Aurelien Meray, Brendon Cintas, Caridad Estrada, Christian Dau, Christian Gonzalez Lopez, Daniel Martin*, David Mareno, Derek Gabaldon*, Desmond Sinnott, Gisselle Gutierrez, Jeff Natividad, Joel Adams, Josue Estrada, Juan Morales, Juana Perucina, Katherine Delarosa*, Lorryn Andrade*, Mariah Doughman, Nathalie Tuya*, Philip Moore, Phuong Pham, Raymond Piloto, Roger Boza, Rohan Shanbhag, Sebastian Story, Silvina Di Pietro*, Stevens Charles, Thi Tran

DOE-EM: Kurt Gerdes, Mary Ann Maloney, Genia McKinley, Jean Pabon, Junita Turner

DOE National Laboratories, Sites, Contractors

*Former staff/student contributors

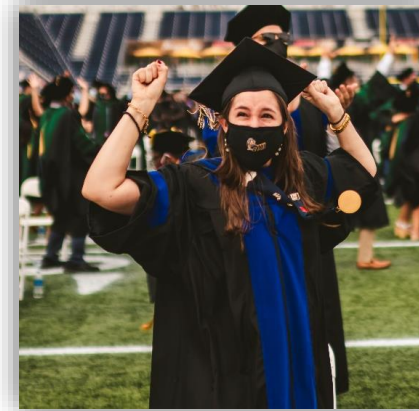
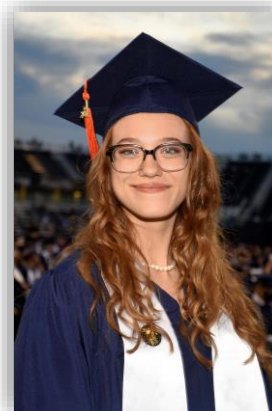


DOE Fellows Program Components



FIU Year 1 Highlights & Accomplishments:

- Conducted 3 recruitment campaigns and selected 12 FIU students to join the program
- 38 Fellows supported FIU scientists and engineers in the development of the technical work
- Conducted virtual introduction ceremony and welcomed 16 Fellows into the program
- 14 summer internships were conducted across the DOE complex
- 17 student posters were presented at WM2021 held virtually, DOE Fellows won best poster awards in graduate and undergraduate tracks.



Career Commencements

Silvina Di Pietro

Ph.D. Chemistry

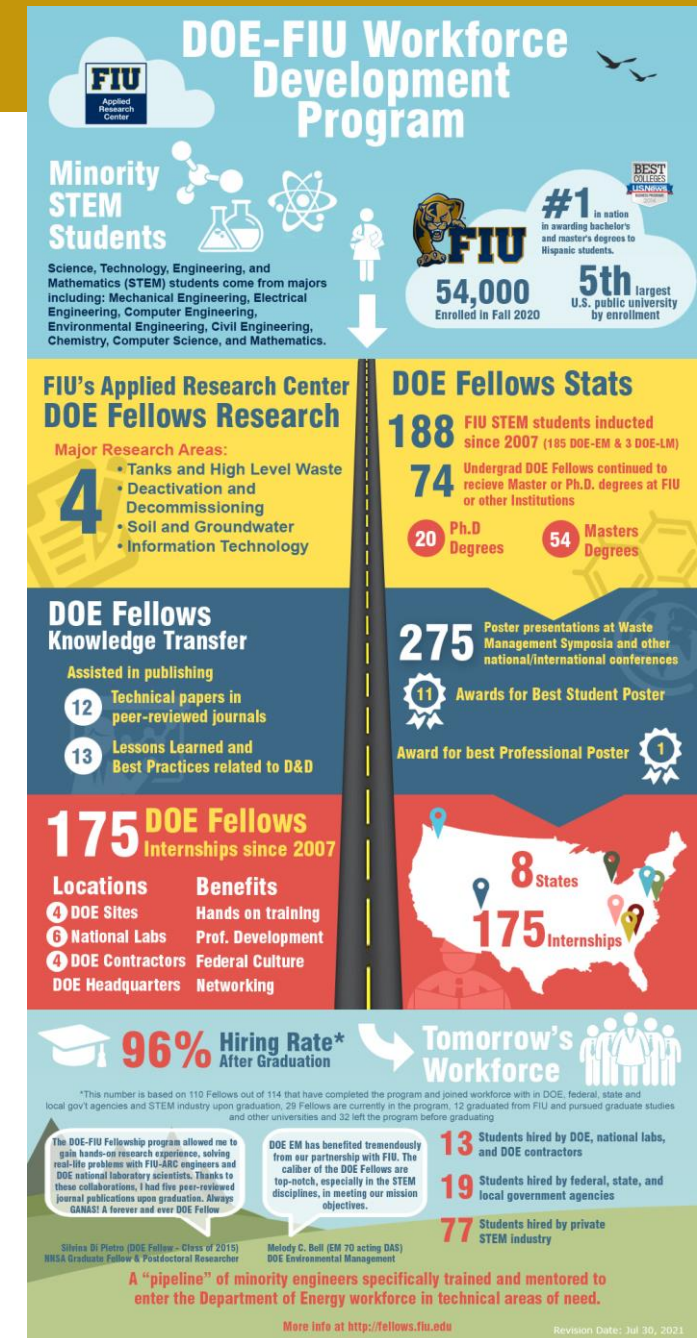
NNSA Graduate Fellow and Postdoctoral Researcher



- Presented her research findings at numerous conferences, including the Waste Management Symposia, the American Chemical Society
- Written scientific discoveries in five peer-reviewed publications
- Won the Innovations Award in Nuclear R&D Program sponsored by DOE
- Selected as the U.S. delegate to the International Younger Chemists Network within the International Union of Pure and Applied Chemistry (IUPAC)

Overall Accomplishments

- **188 FIU STEM** minority students (graduates and undergraduates) have been inducted as DOE Fellows since program inception.
- **13 DOE Fellows** hired throughout the DOE Complex: DOE EM HQ (3), DOE national laboratories (8), NNSA (1), and DOE EM contractors (1).
- **19 Fellows** have been hired by other federal, state or local governments including: Dept. of Defense, NASA, Army Corp of Engineers, Dept. of Commerce, Florida Dept. of Environmental Protection, DERM, Dept. of the Navy (NAVSEA).
- **77 DOE Fellows** graduated FIU with bachelor's or master's degrees and obtained employment in STEM industry.
- **12 DOE Fellows** graduated FIU and pursued graduate STEM degrees at other major Universities (MIT, Virginia Tech, Georgia Tech, Stanford, etc.).
- **29** are still pursuing their respective degrees at FIU and continue to be part of the DOE Fellows Program.
- DOE Fellows graduate FIU and immediately obtain employment with federal government, state/local government and STEM industry in general. The hiring rate upon graduation is approximately 96%.



FIU Year 2 Projected Scope

- Recruitment of qualified talented FIU minority STEM students
- Engage in DOE EM research (Projects 1, 2 and 3)
- Poster exhibition & competition (November 2021)*
- Annual DOE Fellows induction ceremony (November 2021)*
- Summer internships 2022/ Site visits
- Summer internship technical reports
- Conference participation & presentations, including WMS 2022, AGU
- 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





Thank You. Questions?