Milton Muldrow Jr.

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Education

George Mason University
PhD–Environmental Science and Public Policy (December 2015 - Expected)

University of Missouri - St. Louis (August 2007)
Master of Science – Biology

St. Francis University**,** Loretto, PA (May 2004)
Bachelor of Science - Biology/ Environmental Science

Professional Experience

Chair of Science/Assistant Professor, Wilmington University (September 2015 – Present)

Adjunct Professor (Biology) Appointments:
Mary Washington University (Aug. 12 - Present)
Northern Va Comm College (Jan '08 - Present)

- Courses Taught: Bio 101, Bio 102, Cell and Mol., Marine Ecology
- Received grant in February ’08 to develop Marine Ecology Course
- Received a grant in spring 2009 for climate change/social science study

CEO/Founder. Body of Science, LLC. (December 2012 - Present)

- Provide administrative services to federal government and other federal contractor partners
- Provide professional training services
- Conduct Environmental Policy Research

Environmental Studies/Natural History Professor (Fulltime 1 year contract Starting Fall 2013). Shenandoah University. (Jan 2013 - Present).

- Teach Environmental Studies and Field Natural History Courses

Program Manager, National Oceanic and Atmospheric Administration, Office of Education, Graduate Sciences Program, (Jan ’11 – August ’11)

- Managed Millions in Grants and Scholarships as NOAA’s Graduate Science Program and the Nancy Foster Scholarship Program Manager.
- Manage 15 graduate scientists
- Supports the EPP and Hollings Undergraduate Scholarship programs.
- Serve as the policy and planning authority and the expert advisor to top managers and outside officials on NOAA Graduate Scholarship Programs for the bureau and major line components.
- Facilitate, organize, and oversee NOAA-wide meetings to evaluate student financial assistance applications.
- Coordinates with Budget Analyst to review monthly program expenditures to

ensure program budgets are in compliance with budget allocations.

Program Analyst,. National Science Foundation (BIO/IOS), (Nov '08-January 2011).

Duties

- Supports technical PI/Reviewer correspondence (e.g., routine to moderately complex Inquiries related to scientific issues)
- Coordinates logistical support and provides materials needed for site visits, outreach activities and workshops
- Interfaces with other Divisions/Directorates to plan and coordinate outreach/site visit activities
- Maintains and updates databases for the Division
- Gathers/formats data for program analysis and information sharing
- Conducts moderate to very complex quantitative analyses – gathers, analyzes, and presents data for program analysis
- Conducts qualitative analysis – utilizes research trends and results tracking to inform policy related to scientific content
- Assists PD in identifying and drafting Highlights (excludes highly technical reports)
- Conducts program analysis
- Supports PD/DD in preparation of reports and presentations (e.g., internal reports)
- Assists PD with preparing materials (e.g., presentations, tutorials, workshops) for outreach and site visit activities
- Attends workshops and conferences, and staffs booths to answer questions
- Assists PD in making oral presentations at workshops, seminars, conferences
- Assists PD in evaluating the effectiveness of outreach and site visit activities (e.g., audience composition)
- Identifies outreach needs from research community
- Identifies opportunities for continuous improvements to databases, data gathering and analytical approaches, and PI/Reviewer interactions
- Provides data, input, and feedback to strategic support staff as requested or necessary

Biologist. National Science Foundation (BIO/DEB), (Nov '07 – Nov '08)

- Assist Population and Evolutionary Processes Cluster in various phases of proposal review process
- Make Funding Recommendations for Research Experiences for Undergraduates (REU) Grants
- Reviewing Annual and Final Project Reports
- Write highlights, news items related to division grantees accomplishments
- Compile and analyze data and prepare tables, charts, and graphs illustrating characteristics of proposals, investigators, program budgets, etc.
- Currently Producing Climate Change Brochure
- Currently heading several NSF supported research projects in Florida involving marine invertebrate population study
- Education and outreach activities
- Data analysis, querying, financial reporting (post-mortems)
- Development of outreach material
- Attend various conferences, panels, meetings

Biologist/Science Assistant (Detail). National Science Foundation (BIO/DEB),

(April ’07-Nov. ’07)

- Same as above

Program Assistant. National Science Foundation (Bio/DEB), (Oct. ’06-April ’07)

- Assist program managers by personally handling the technician work associated with a grant program. Process grant awards, declinations and withdrawals, e.g., review, verify, monitor and track proposal activities; examine budgets for adjustments; prepare grant packages; coordinate panel meetings; maintain grant files; generate computerized reports; perform data entry; assist callers; prepare travel documents; and prepare word-processing assignments.

George Mason University (August ’08 to December ’08)

- Adjunct Instructor of Biology Lab and Lecture–Bio 101 (Fall 2008)

Consultant/Project Manager Parks and People Foundation/MD Department of Natural Resources Civil Justice Corps Program (Summer ’08)

- Design and implement a program performance survey which will determine the program’s success in meeting pre-determined outcomes
- Project management services for the purpose of completing certain projects and tasks related to Parks & People’s mission, strategic plan, and goals and objectives in Environmental Education

Director of Education. Florida Keys Ocean Science Center, P.O. Box 500130, Pigeon Key, FL 33050. (December ’05 to September ’06)

- Hired and trained all staff including mid-level managers.
- Responsible for all promotions, PR, marketing, website
- Established/renewed partnerships with Florida Fish and Wildlife Conservation Commission, Crane Point Hammock, Worldstrides, others
- Established research programs (shark tagging, nearshore species change over last 30 years)
- Update, manage website
- Established client evaluations (over 90% approval rating)
- Established indoor and outdoor exhibits

WORKS/PUBLICATIONS IN PROGRESS

Firth P, Sparks R, Muldrow M, Great Rivers – Where Ecology Meets History, 2008 AAAS: Science NetLinks, <SCIENCENETLINKS.COM> (IN PRESS)

Muldrow M, Pitelka L. Translating Science For Society: How Climate Change is Transforming Life on Earth (Report). 2008. National Science Foundation (In Editing)

How Have Near Shore Communities of Pigeon Key Changed Over the Last 30 Years? (June ‘06 to Present)

- Compares species inventories conducted in the early 1970’s to current species occurrences with regard to several conservation implications.
- Currently being prepared for publication

Tropical Forest Restoration Study. University of Missouri, Upper Key Largo, FL (Sept ’05-July ‘07)

- Research examines the effectiveness of introduced bird perches in degraded forests in facilitating seed dispersal
- Currently being prepared for publication

TEACHING EXPERIENCE

Adjunct Professor of Biology. Northern Virginia Community College (Spring '08 to Present)

Graduate Teaching Assistant/Instructor. University of Missouri. 1 University Blvd, St. Louis, MO 63121. (Aug. '05 – Dec. '05)

- Introductory Biology: Organisms and the Environment
- Independently taught one lab and one discussion section of introductory biology

National Science Foundation GK-12 Graduate Fellow - MO-STEP Education Program. University of Missouri-St. Louis, 1 University Blvd, St. Louis, MO 63121. (Aug. '04 – Aug. '05)

- Taught environmental science class at Normandy High School in St. Louis. Taught, developed lesson plans, organized field trips, presentations, started bio-club, open house.
- Conducted independent research

Marine Instructor. Florida Keys Ocean Science Center. P.O. Box 500130, Marathon, Florida 33050. (May '05-Aug. '05)

- Taught various Classes on Pigeon Key Island including Plankton, Invert. Lab, Marine Habitats, Ethical Angling, Seawater Chem, Reef Fish I.D.
- Underwater naturalist during reef trips

Teaching Assistant. St. Francis University, Loretto, PA (Sept. 2002-May 2003).

- Provided assistance to the professor in Biology 1 and 2 labs. Set up lab quizzes, designed and graded quizzes

Biology Tutor. St. Francis University, Loretto, PA (Sept. 2002-May 2003).

- Provided instruction and assistance to first-year students in the biology program, teaching Principles of Biology in one-on-one sessions.

SEMINARS/TALKS

"How to Start an Environmental Nonprofit" Pigeon Key Foundation, Marathon, Fl April 2006, July 2006

- Gave talk to Russian doctorate scientists working at SeaCamp on considerations in starting an environmental nonprofit organization.

"Breaking Barriers to Regeneration: Examining the effectiveness of introduced bird perches in facilitating seed dispersal July 2007

- Masters Thesis Defense project. Successfully defended masters thesis research

"What is a Marine Biologist?" Pikesville High School, Baltimore, MD June 2008

GRANTS/AWARDS/FELLOWSHIPS

Outstanding Rating Performance Appraisal Rating (May 2009)

National Science Foundation (March 2009)
Award of Recoginition (cash award) – ARRA (Stimulus)

NOVA GRANT (February 2008)

- Development of a Field Course to the Florida Keys to Serve as Lab for BIO 275: Marine Ecology

VCCS GRANT (December 2008)

- What effect does student learning style and demographics have on student receptivity to climate change being taught as a human driven phenomenon?

National Science Foundation (August 2007)

- Award of Recognition– Climate Change Publication, Research

National Science Foundation (July 2007)

- Award of Recognition– High work load, research panel admin.

International Center for Tropical Ecology (Oct. 2005)

- $1500 Award

National Science Foundation Graduate Fellowship - MO-STEP Education Program.
University of Missouri - St. Louis (Aug. 2004 – Aug. 2005)

- $30,000 fellowship through the National Science Foundation GK-12 program

CERTIFICATIONS & TRAINING

Certified as an Open Water Diver, and Underwater Naturalist
Skilled in tree, vascular plant and tropical marine fish identification
Skilled in working and designing websites, and maintaining databases