Melvin Douglas Smith II

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**CERTIFICATION**

Maryland State Department of Education. Advanced Professional Certificate.

Middle School Science: Grades 4-9 & Biology Grades 7-12 (expired June 2015)

**EDUCATION**

Teaching Certificate with graduate work in Secondary Science:

Biology, Chemistry, General Science, Physical Science, August 2000

***University of Iowa,*** Iowa City, Iowa

Graduate work in Neuroscience, August 1995 - May 1996

***University of Iowa,*** Iowa City, Iowa

Bachelor of Science, Psychology. Minor: Biology, December 1993

***Morehouse College,*** Atlanta, Georgia

# FORMAL TEACHING EXPERIENCE

**5th Grade Science Instructor**

The Belair-Edison School (Brehms Campus), Baltimore, MD

Science, technology, engineering, art, and mathematics (STEAM) concepts are the foundation for the development and presentation of instruction. Working with an individual grade level team for more focused interdisciplinary understanding and preparation for middle school.

August 2019 – June 2020

**Elementary STEAM Instructor**

Brehms Lane Public Charter School (BLPCS), Baltimore, MD

Develop and implement programming centered in the concepts of science, technology, engineering, art, and mathematics for pre-K to 5th graders. Content focused heavily on technology integration to support core subject material and communication of investigative experiences.

August 2016 – June 2019

**Community College Biology Instructor**

Howard Community College (HCC), Laurel, MD

*Lecturer*

Prepare and deliver content through lectures for HCC’s Biology 101 course. Summer 2013

*Laboratory Facilitator*

Ensure students successfully align the concepts and experiences from HCC’s Biology 101 and 102 lectures to the lab. August 2014 – June 2016

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**General Science Teacher**

Patterson Park Public Charter School (PPPCS), Baltimore, MD

Provide cross-curricular lessons with a focus on hands and minds-on instruction and evaluation for 6th and 7th grades (8th grade for 2009-2010). August 2008 – June 2012

**Science Teacher of the Up-county Center for the Gifted and Talented**

Roberto Clemente Middle School (RCMS), Germantown, Maryland

Designed and implemented instructional materials for 7th grade students within the math, computer science, and science magnet program that are rigorous and non-traditional. August 2004 – June 2008

**General Science Teacher**

Silver Spring International Middle School (SSIMS), Silver Spring, Maryland

Provided hands and minds-on instruction, evaluations, and assessments for 8th (2001-2002),

7th (2002 –2003), and 6th grade students. August 2001 – June 2004

**Biology Teacher, Multi Occupational Cooperative Teacher, School-to-Work Coordinator**

Mid-Prairie High School, Wellman, Iowa

*Biology Teacher*

Designed, facilitated, discussed and evaluated an introductory level science course with and for 9th, 10th and 12th grade students, including students with special needs. August 2000 – June 2001

*Multi Occupational Cooperative Teacher*

Coordinated and monitored internships for high school seniors and prepared them the workplace. August 2000 – June 2001

## School-to-Work Coordinator

## Administered and explained the WorkKeys Assessment; managed job shadow placements, service learning projects, and professional development opportunities for teachers to apply classroom instruction to college and the world of work. August 2000 - March 2001

**Educational Associate**

Washington Township, Frytown, Iowa

Supported teachers and para-educators with additional instruction for children with special needs (K-5). February – June 2001

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**ADDITIONAL FORMAL TEACHING EXPERIENCE**

# Home-School Program Instructor, Howard Community College, Maryland

Develop curriculum and instruct students registered within the Howard County Homeschool Community. Classes included *A Celebration of Cells*, and *Matter Matters*. February – May 2016.

# Science Exposition Coordinator, PPPCS, Maryland

Disseminate information to elementary school teachers related to preparing students for school’s science fair; acquire and coordinate judges; train student ambassadors; design program and host public viewing of projects. Middle school power points, glogs, demonstrations and posters are organized for public viewing. 2008 – 2012.

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# Outdoor Education Co-Counselor, SSIMS, Maryland

# Provided guidance and supervision for 6th grade students on interdisciplinary three-day learning experience. 2003 (Skycroft) and 2002 (Smith Center)

# Upcounty Center Program’s 8th Grade Field Trip Co-Planner, RCMS, Maryland

# Helped organize and facilitate a weeklong trip for science and humanities students to New York City to help students extend their classroom practices to practical experiences. 2006 and 2007

# Science Fair and Science Symposium Coordinator, SSIMS, Maryland

# Led and facilitated key responsibilities that included finding judges, coordinating presentation times for students, and awards ceremony. 2001 – 2004

# Student Inquiry Conference Committee Chair, Montgomery County, Maryland

# Led a team of teachers to develop and provide a forum for students to present science projects in a non-competitive atmosphere. 2004 – 2008

**INFORMAL TEACHING EXPERIENCE**

**BUSI Brain/SciSense, Founder**,Columbia, Maryland

Provide training of scientific methodology through hands-on experiences for afterschool programming or tutoring to elementary, middle, and secondary levels. August 2012 – August 2016.

**Kids on Campus, Instructor**,Columbia, Maryland

Develop and instruct students within Howard Community College’s Continuing Education program for children and young adults. Programs have included: *Games of Panem*, *E-Cool-ogy*, *Experiments for Middle School Students, Intro to Zoology, Junior Medic, and Foodtastic Art*.Summers 2014 - 2019

**Science Project Advisor,** PPPCS, Maryland Coached 5th grade students in preparation for grade specific Johns Hopkins Medical Center Science Fair. 2010 – 2012.

# Homework Hotline Live Television Co-Host, Rockville, Maryland

# Guided K -12 students through homework questions. 2002 – 2008 Montgomery County Public Television seasons.

# Science Symposium and Academic Showcase Coordinator, SSIMS, Maryland

# Designed and led the implementation of all aspects for the symposium and showcase that included establishing procedures, training faculty, and supporting students with their presentations. May 2003

# Afterschool Program Facilitator, RCMS and *SSIMS*, Maryland

# *MindStorm LEGO Robotics Club*, prepared students to compete in the regional MindStorm LEGO Competition. 2004 – 2005, *2002 – 2004*

*Green Schools Project*, supervised students in implementing energy efficient changes for the school based on real-time data collection. 2004 – 2005, *2002 – 2004*

# Field Trip Guide and Summer Camp Coordinator, Iowa Children’s Museum, Coralville, Iowa

*Field Trip Guide*: Structured, oriented and provided educational assistance to K-5 students participating in content specific field trips. January 2000 – July 2001

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*Summer Camp Coordinator*: Conceived and implemented interactive and educational activities for students between Kindergarten and 5th grades. January 2000 - August 2000

# Museum Developer, Iowa Children’s Museum, Coralville, Iowa

Served as science consultant for the design, education and implementation of the science and engineering gallery. April 1998 – July 2001

**Exhibit Facilitator**,Iowa City Area Science Center, Inc., Iowa City, Iowa

Aided in the educational planning, organization and maintenance of science oriented exhibits.

August 1998 - August 1999

**Youth Program Coordinator**,Neighborhood Centers of Johnson County, Iowa City, Iowa

Planned and aided in the logistics and implementation of summer and science programs for children between third and sixth grades (later in Kindergarten through Fourth). Summers 1998 and 1999

**RELATED EDUCATIONAL ACTIVITIES**

**House Team Leader,** The Belair-Edison School (Brehms Campus), Baltimore, Maryland

Assist in the planning, coordination, and dissemination of House Days designed promote fellowship and leadership opportunities across grades pre-K to 5th grade.

**sciNpost Radio Show Host & Monday’s Mental Moment/Time Warp Wednesdays,**

Howard Community College, Columbia, Maryland

Developer of script and show’s overall content designed to bring a heightened appreciation for all things STEAM related through current events, conversations, and projects to be performed by the

listening and video audience. <http://iseescience.weebly.com/scinpost.html>. June 2014 - August 2016

# STEMulatingMinds Committee Member, Columbia, Maryland

# Founding member to raise awareness in Howard County MD of the vocational and educational opportunities in science, technology, engineering, art, and mathematics. Created and maintained the Committee website as well as acquire student art for HoCo STEM Festival’s STEAM Gallery. December 2012 – November 2017

# Achievement Committee Co-Chair (and Chair), PPPCS, Maryland

# Assist in the arrangement and facilitation of key afterschool events to promote student achievement, direct committee meetings, and design certificates for honor roll recipients. 2008 – 2009 (2009 – 2012)

# Elementary Science Curriculum Co-Developer, PPPCS, Maryland

# Redesigned content to better reflect school’s goals for more immersive labs and cross-curricular lessons for second and third grades. Summer 2011

# Patterson Park Public Charter School Science Laboratory Co-Planner, PPPCS, Maryland

# Assist in the structural and functional design of the school’s dedicated workspace for science. 2008 - 2011

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# “Building Better Bridges” Co-Designer, PPPCS, Maryland

Worked with Assistant Principal, D. Hafiz, and PPPCS Committee Chairperson to outline and present recommendations to form academic relationships with Polytechnic Institute and Morgan State University. Summer 2009

# Middle School Curriculum Developer, PPPCS, Maryland

# Designed content driven labs, themes, and cross-curricular lessons for grades six through eight. Summer 2008 and 2009

# Assessment Developer, Rockville, Maryland

# Served as project leader to create countywide pre/post assessments for sixth grade curricular rollouts. March – May 2004

**AWARDS/ACKNOWLEDGEMENTS**

Nominee of Teacher of the Year in Baltimore City Public Schools (Maryland), 2010

Nominee of Presidential Awards for Excellence in Math and Science Teaching (Maryland), 2010

Nominee of Presidential Awards for Excellence in Math and Science Teaching (Maryland), 2007

“Above and Beyond” Award, Silver Spring International Middle School, 2003 and 2002

Nominee of U-High Innovative Developments in Education Award, University of Iowa, 2000

#### PRESENTATIONS

***HCC Spotlight***, <https://www.youtube.com/watch?v=8b5qiE2c2PY> Howard Community College. Columbia, Maryland. Filmed April 2016

***Purposefully Making Your Students “BUG OUT”***, National Science Teachers Association, National Conference. Indianapolis, Indiana. March 2012

***The “Other” Science Fair: Inquiry Across the K-12 Levels***, National Science Teachers Association, Regional Conference. Baltimore, Maryland. March 2007

***Discover Education Science Connection Integration Best Practices Video Features****,*

<http://www.globallearningsystems.com/discovery/DSC/filmstrip/filmstrip.html> (frames 6 - 9)

Filmed June 2006 – Link no longer active.

***Inquiry in the Elementary Classroom: Adaptation and Development,*** Montgomery County Elementary Summer Science Institute. Rockville, Maryland. June 2006

***The Rigorous, Yet Warm and Fuzzy Science Fair***, National Science Teachers Association, National Conference. Anaheim, California. April 2006

***The PSA in Science… Here’s How It Happened***, National Science Teachers Association, National Conference. Anaheim, California. April 2006

***Student Inquiry Conference: An Alternative to the Traditional Science Fair***, National Science Teachers Association, National Conference. Dallas, Texas. April 2005

***The Thematic Unit: Its Advantages and Uses***, Mid-Prairie Middle School. Kalona, Iowa. October 1999

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***Central Regulation of Intraocular Pressure: Adrenergic Agonists***, South Eastern Microscopy Society (SEMS). Atlanta, Georgia. May 1995

***Ocular Hypotensive Effects of Moxonidine: Involvement of Imidazoline (I1) Receptors***, Sigma Xi, Scientific Research Society. Atlanta, Georgia. April 1994

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**TRAININGS**

**United Streaming for Your Classroom**, PPPCS

Instruct and facilitate discussion in the use of DiscoveryEducation.com’s multimedia hub for educational videos, activities, and lessons. 2010

**ARIES / SCALE-UP grant**, Montgomery County Public Schools

Provided information and curriculum ideas on a Forces and Motion unit to 6th grade teachers as part of a three-day training that included two-day follow-up. 2005 – 2007

**Forces and Motion Curriculum Rollout**, Montgomery County Public Schools

Guided 6th grade teachers through the district’s prescribed content for Forces and Motion using the

5E method and the rationale behind the science indicators. 2005

#### PROFESSIONAL DEVELOPMENT

#### MSDE Educator Effectiveness Academy, Baltimore, Maryland. Summer 2010

#### Promethean Board Use and Implementation. Germantown, Maryland. Summer 2007

# Maryland Governor’s Academy (completed two of three parts). West Maryland. Summer 2004

#### Chesapeake Bay Ecology Training. Port Isobel, Maryland. Summer 2003

#### John’s Hopkins’ Biotechnology Training. Germantown, Maryland. Summer 2002

#### Global Education Project. Storrs, Connecticut. Summer 2001