

## Hampton University School of Science

### Top Twelve Accomplishments within the past 5 years

1. Hampton University Department of Atmospheric and Planetary Sciences leads NASA's Aeronomy of Ice in the Mesosphere (AIM) satellite mission, which observed the first week of the Arctic noctilucent cloud season that began in early May. AIM spotted the night-shining clouds about 50 miles overhead in a layer of the atmosphere called the mesosphere. The May 17th detection marked the second earliest start in the 14-year history of the mission.
2. Hampton University School of Science Pre-Health Program partnered with the Physician's Affinity Group to co-sponsor the Pre-Med Conference designed to increase the number of Hampton University students applying and enrolling in medical school.
3. Hampton University School of Science was awarded a \$4 million grant by the U.S. Department of Defense (DoD), specifically aimed to enhance research capabilities and strengthen educational programs in science, technology, engineering and mathematics (STEM).
4. Hampton University Department of Biological Sciences **MARC** (Maximizing Access to Research Careers) program had 100% of the students matriculate into a post-baccalaureate or PhD program, while 100% of the **Pre-MARC** students also matriculated into a Masters, PhD or MD/PhD program.
5. Hampton University Department of Biological Sciences hosted the National Genome Consortium for Active Teaching Using Next-Generation Sequencing (GCAT-SEEK) workshop research coordination networks for undergraduate biology education (RCN/UBE) programs, sponsored by the Howard Hughes Medical Institute (HHMI) and National Science Foundation (NSF). Dozens of participants from a network of schools, representing nearly 40 institutions, were present to learn how to educate a diverse crowd of undergraduate students bringing the necessary resources to support genomic projects with undergraduates.
6. Hampton University Department of Chemistry and Biochemistry along with other departments was awarded a \$1,556,390 National Institutes of Health (NIH) HU-URISE grant to train the next generation of PhD and MD/PhDs.
7. Hampton University Department of Communicative Sciences and Disorders has consistently received accreditation of the graduate program for 8 years by the Council on Academic Programs of the American Speech-Language Pathology.

8. Hampton University Department of Computer Science established the Center of Academic Excellence in Information Assurance and Cyber Security and has had a 100% placement rate for graduating seniors for 6 years.
9. Hampton University Department of Marine and Environmental Sciences, a leader in Marine Science undergraduate research, was the only HBCU ranked in the “top 25 best Marine Science programs” in the US, ranked 13 of 20 for the best-valued programs by College Values Online, ranked among the top producers of African Americans with a BS in Marine Science in the country, and our graduate school placement rate ranges from 50-80%.
10. Hampton University Department of Mathematics was involved in the development of a new method for simulation on nonresonant stellarator divertor and was awarded funding to begin new research along with allocation of super-computing time on NERSC of 10 to 15 million CPU hours on NERSC.
11. Hampton University Department of Physical Therapy is a top producer and employer of African American/Black Physical Therapists in the country.
12. Hampton University Department of Physics developed the construction of Gas Electron Multiplier detectors which will be used for the studies of proton radius and the DarkLight search, and initiated the quantum optical science and technology for quantum ghost imaging and sensing.