**Gregory Burgess**

The Program & Why I am Applying

* MIT – Woods Hole Oceanographic Institution (WHOI) Joint Program: Offers a master’s degree for U.S. Naval Officers in either the Applied Ocean Science and Engineering discipline or the Physical Oceanography discipline (I’ll be applying for the Engineering one). It is an incredible program that offers courses, programs, and resources from both MIT and WHOI.
* This past summer, I participated in the summer student fellowship at WHOI and had the opportunity to work with Dr. Richard Camilli as well as several current Joint Program students. The work I did on unmanned underwater gliders and sonar techniques is something that could be impactful for the Navy and something I would be interested in studying further (this is the work I will be presenting at the IEEE OCEANS Conference). I believe this program would make me a better submarine officer as well as open the door to the Engineering Duty Officer community later on in my career (by earning the Navy P-Code).

Academic

* **Bowman Scholar** – Admiral Frank Bowman Scholar (early selection in the Nuclear Navy, scholarship to Naval postgraduate school, research project, summer internship)
* **Summer Student Fellowship at Woods Hole Oceanographic Institution**
  + Work accepted to the student poster competition (top 20 submission) at the IEEE OCEANS conference in Seattle (Oct. 2019) – will be presenting my research
* Commandant’s List/ Dean’s List – B in aptitude (rankings from company officer), A in conduct, A in PE, and 3.4 minimum SQPR
  + CQPR: 3.93
* Internship at Sandia National Labs
  + Summer 2017 (Livermore, CA)
    - Technical Reachback Project: anti-proliferation of nuclear weapons/material. Worked extensively with JavaScript, CSS, and HTML.
  + Summer 2018 (Albuquerque, NM)
    - research on physical security systems used by the Department Of Defense, Department of Homeland Security, and Department of Energy. Specifically, tested radar technologies and designed security layouts.

Leadership/Professional

* 1/C Squad Leader – Mentor and leader of 12 MIDN of 1st company.
* Plebe Summer Executive Officer – 2nd highest ranking member of my plebe summer company. As XO, I helped lead my fellow detailers as well the roughly 80 plebes that comprised the company. Ensured good order and discipline of the company was achieved.
* 1st Sergeant of 1st Company – Highest ranking 2/C (junior) within the company and works directly with the company commander and company officer to ensure that all 155 members of the company are on board with fulfilling the mission. Representative of the 2/C within company.
* 1st LT sergeant – aid the 1st LT in maintaining a functional, clean company area.
* Ice Trials Squad Leader – As a sophomore, led a group of 8 underclassmen through an intense, extended physical evolution. Responsible for their safety and pushing them to excel.
* Model United Nations – Attend conferences with the USNA Model UN team to compete in mock UN competitions.
* Volunteering Work
  + Best Buddies Program – Taking time to be a mentor and help with events planned for groups comprised of people with special needs
  + Honor Flight – Program that flies veterans out to visit DC and be honored for their service. Many of these veterans never received a homecoming when they actually returned from overseas.
  + Stem Outreach
    - MESA STEM Outreach in Baltimore, MD
    - Judge for the SeaPerch Regional Competition

Physical

* PRT Scores – 94.5 (earned high marks on bi-annual physical readiness test every semester)
* Active member in company intramural sports
* Member of the USNA Yoga Club
* PMO Corporal – As PMO corporal (spring semester of sophomore year), I led remedial workouts for members of the company who needed extra help to improve their PRT scores.