I am seeking opportunities as a senior/principal/lead scientist or engineer. Ideally, this role would offer the ability for me to develop as a leader for both personnel and projects.

I am currently a mechanical engineer at the U.S. Naval Research Laboratory (NRL) in Washington, D.C., working on a variety of projects involving mechanics of materials and machine learning. My current research interests primarily include: Warfighter protection, additive manufacturing of metals and ceramics, biomechanics of injury, and applications of machine learning in those areas. However, my interests extend far beyond these to any mission which supports U.S. national security.

I currently hold degrees in aerospace engineering (B.S., Virginia Tech; M.S. Texas A&M) and industrial engineering (Ph.D., Texas A&M). Additionally, I have a graduate certificate in applied statistics (Texas A&M). In each degree as well as in my professional career, I have experienced and successfully overcome new challenges by adapting quickly to the tasks given to me. In my B.S. work, I focused on space systems which, ultimately, resulted in a research project that flew in NASA's reduced gravity research program. Subsequently, in my M.S., I worked on smart materials; a field which I had no prior experience. I not only had to become an expert in mechanics of shape memory alloys but learn the fundamentals of electromagnetics and heat transfer modeling. This trend carries through to my professional career as well as my Ph.D., where I started each with no prior knowledge nor experience in a subject (biomechanics, additive manufacturing, statistics/machine learning) and leveraged resources available to me to become technically adept in each area.

Even though I am a technical expert in my specific fields, I have developed a more general skillset to decompose problems into manageable pieces which allows me to quickly solve to new, complex problems. Fundamentally, my success and skillset stems from my personality as a self-starter and my desire to achieve expertise in any area or task I undertake. Combined with my work ethic, I am to adapt and work in novel fast-paced environments with ease. I am also adept at working on multiple projects at once and have an exceptional ability to compartmentalize tasks to efficiently complete them.

As I have grown professionally, I have naturally taken on more responsibilities, including developing project proposals and mentoring younger engineers and scientists. I have found that both areas are passions of mine, and I am seeking opportunities where I am able to explore these areas further as well as continue my education in those areas via an MBA and/or PMP (or similar) certification. An ideal position would allow me the flexibility to craft new proposals that address critical issues, execute them through collaborations with multidisciplinary teams, mentor and develop new talent, and provide the satisfaction of accomplishing the project deliverables on schedule.