

Bryan Snead

Permanent Address: 18058 Cleveland Church Road, Abingdon Virginia, 24211

School Address: Charlottesville, VA, 22903

(276) 274-8330 | bssnead.90@gmail.com

www.linkedin.com/in/bryan-snead-6429b3273

Education

University of Virginia, Charlottesville, VA

BS. Material Science Engineering., August 2024 - May 2028

- Anticipated engineering degree with a focus on materials behavior, thermodynamics, and solid-state principles.
- Developing skills in materials testing, data analysis, and sustainability practices.

Virginia Highlands Community College, Abingdon, VA

Certificate in General Studies, May 2021 - May 2024

- Pursued concurrently with high school as part of a dual enrollment program.

Abingdon High School, Abingdon, VA

Highschool Diploma, August 2020 - May 2024

- Graduated as class valedictorian and involved with swim team, marching band, and FBLA.
-

Experience

Materials Intern, Virginia Department of Transportation, Bristol, VA, May 2025 - August 2025

- Gained hands-on experience in applied geology, environmental impacts on infrastructure, and role of materials science in civil engineering.
- Performed lab testing on construction materials such as asphalt, concrete, and soils to assess strength, durability, and compliance with ASTM and AASHTO standards.
- Collected asphalt and concrete core samples to evaluate pavement quality and structural integrity.
- Inspected in roadway inspections to identify drainage issues, sinkholes, and other environmental concerns affecting infrastructure longevity.

Researcher, Laboratory for Astrophysics and Surface Physics, Charlottesville, VA, August 2025 - Present

- Researched and designed a Faraday cup for an ion accelerator to measure charged particle beams.
 - Evaluated metals for electrical conductivity, thermal stability, and mechanical properties relevant to fabrication.
 - Gained hands-on experience with materials characterization, prototyping, and scientific apparatus construction.
-

Academic Projects

Sustainable Recycling Project, University of Virginia, Charlottesville, VA, January 2025 - May 2025

- Collaborated with a team to improve UVA's recycling process, aiming to enhance sustainability efforts on campus.
 - Conducted regular client meetings with supervisors from JunkLabz to gather requirements, present progress, and integrate feedback.
 - Organized project timeline and deliverables using Microsoft One-Note.
-

Relevant Coursework

Material Properties, Additive Manufacturing and 3D Printing, Thermodynamics, Physics 1 & 2, Calculus 1, 2, & 3, Ordinary Differential Equations, Linear Algebra, Programming in Python, and Engineering Ethics.

Extra Curricular Activities

Member, Material Advantage, Charlottesville, VA, August 2024 - Present

- National student program for materials engineers sponsored by ACerS, AIST, ASM International, and TMS, offering broad exposure across ceramics, steel, manufacturing, and minerals/metals/materials.

Member, Trigon Engineering Society, Charlottesville, VA, September 2024 - Present

- Professional engineering society that contributes to the engineering school with various community projects.

Leadership position, Abingdon High School Marching Band, Abingdon, VA, August 2024 - May 2025

- Taught and led the Sousaphone section while developing strong musicianship and leadership skills.