

Amanda Warchal

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As a dynamic and ambitious college sophomore, majoring in Biology/ Biotechnology, I am eager to contribute my passion for cutting-edge advancements in the field of biotechnology to a forward-thinking organization. Armed with a solid foundation in biological sciences and a prevalent curiosity for innovation, I am seeking an internship opportunity where I can apply my academic knowledge and hands-on laboratory skills.

Core Competencies

Laboratory Skills (technical and safety), Academic Writing, Data Analytics, Creative Problem-Solving, Innovation, Detail-Oriented, Organization, Communication, Collaboration, CPR and First-Aid Certified, Programming in R, Microsoft Office 365

Experience

Assistant Researcher 09/2023-Present

Worcester Polytechnic Institute

- Researching and evaluating syllabus and campus inclusivity practices to improve student experiences at WPI
- Collaborating with humanities professors to assess and develop solutions to pervasive issues of inclusivity

Biology/Biotechnology Peer Learning Assistant 01/2024-Present

Worcester Polytechnic Institute

- Demonstrated expertise in Biology and Biotechnology, aiding fellow students in comprehending challenging topics.
- Collaborated with professors and other teaching assistants to align peer learning initiatives with course objectives.

Assistant Teacher 07/2023-Present (seasonal)

Next Generation Children's Center

- Maintained a safe environment and provided care for children of six months to five years of age
- Utilized empathy, conflict resolution skills, and creativity to communicate with children and their families
- Upheld food safety regulations and ensured the upkeep of allergen protocol

Customer Service Associate, Bay Owner 04/2020-12/2022

Walgreens Boots Alliance

- Trained new team members in use of the POS and photo lab online systems
- Upkept multiple sections of the store, whilst ensuring product quality and organizing stock for best customer experience

Scientific Projects

Experimental Design and Bacteria- Molecular Biology Course Project 10/2023-12/2023

- Reviewed primary literature in the field of Molecular Biology to identify a gene in *Borrelia burgdorferi* Bacteria with an unknown function.
- Utilized knowledge of investigative biotechnology methods and academic writing skills to design and justify a course of experiments that could elucidate the function of this gene.

Somatropin Infographic - Introduction to Biotechnology Course Project 03/2023-05/2023

- Used course-related knowledge of the structure of DNA and proteins to locate core structural elements of an unidentified protein and utilized the NCBI Blast x database to determine the protein's identity.
- Once the protein was identified as Somatropin, I gathered information to create an infographic that would elucidate its uses in Biotechnology and its structural properties.

Dipeptide Challenge - Kinetics, Equilibrium, and Thermodynamics Laboratory Course Project 01/2023-03/2023

- Used knowledge of Laboratory practices, research skills, and knowledge related to the course to craft procedures that would allude to the identity of an unknown dipeptide sample.
- Utilized academic writing and analytical skills to explain results and conclude the unknown sample's identity, whilst using graphs in Excel and tables in Google Docs to frame the data collected further.

Separations Lab- Chemical Properties, Bonding, and Forces Laboratory Course Project 08/2022-10/2022

- Utilized knowledge of chemical principles to separate pigments within a maple leaf by Column Chromatography.
- Employed UV/Vis Spectroscopy to confirm which pigments had been separated out chronologically and determine whether this matched the order predicted by chemical principle.

Education

Bachelor of Science (BS), Biology/ Biotechnology 08/2022 - Present

Worcester Polytechnic Institute, Worcester, MA

Expected graduation May 2026

Current GPA: 3.77/4.0

Relevant Courses: Molecular Biology, Genetics, Cell Biology, Human Biology, Biotechnology, General & Organic Chemistry, Applied Statistics 1&2, Introduction to Art, Miniature Painting,

High School Diploma 08/2018 – 06/2022

Bartlett High School, Webster, MA

GPA (weighted): 4.94/5.0

Relevant Courses: Accelerated Biology, AP Statistics, AP Psychology, Honors Physics, AP Studio Art, Honors Chemistry, AP Chemistry

Nichols Honors Academy: Accelerated academic program in which leadership & business-related workshops with professors at Nichol's college were attended.

Awards & Affiliations

- Society of Women Engineers (Member), Worcester Polytechnic Institute, 2023-present
- Art Club (Member), Worcester Polytechnic Institute, 2023-present
- Valedictorian and Graduation Certificate of High Honors, Bartlett High School, 2022
- Art Distinction Award, Bartlett High School, 2022
- Super Team Award for Exemplary Conduct in Spanish and Math, Bartlett High School, 2021&2022
- Member of National Honor Society, 2020-2022