Reagan Bhatia

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SUMMARY

Graduate student specializing in Chemical Engineering, focused on polymeric materials research and optimization. Experienced in computational and experimental methodologies aimed at enhancing material properties, particularly aramid fibers used in ballistic applications. Collaborated with multidisciplinary teams to achieve critical advancements in protective armor technology while actively pursuing a PhD. Engaged in ongoing research that seeks to innovate next-generation chemical processes that critically improve structural integrity and strength of high-performance materials.

EDUCATION

Bachelor of Science in Chemical Engineering 2025

Northeastern University GPA: 3.8 *Boston, MA*

Coursework: *Polymeric Materials, Thermodynamics, Material Science, Fluid Mechanics*

TECHNICAL SKILLS

- **Modeling Software:** COMSOL, ANSYS, MATLAB
- **Data Analysis Tools:** Python, MATLAB, R
- **Laboratory Equipment:** HPLC, SEM, FTIR
- **Workflow Management:** Trello, Asana, Microsoft Project
- **Document Presentation Tools:** Microsoft PowerPoint, Google Slides, LaTeX
- **Chemistry Certifications:** Coursera, edX
- **Programming Languages:** Python, Java, C++
- **Scientific Writing Tools:** LaTeX, Overleaf, MS Word
- **Testing Methodologies:** ASTM, ISO Standards, MIL-STD
- **Research Collaboration Platforms:** Mendeley, Zotero, EndNote

SKILLS

- Molecular modeling
- Materials processing
- Data analysis
- Experimental design
- Team collaboration
- Technical writing
- Ballistics testing
- Research methodology
- Computer simulations
- Programming
- Material characterization
- Chemistry techniques
- Statistical analysis
- Lab safety protocols
- Fabrication Techniques
- Quality control

EXPERIENCE

Chemical Engineering Research Assistant

September 2025 - Present

University Project *Boston, MA*

Contributes actively to various projects focused on optimizing molecular structures for advanced polymeric materials targeting protective armor enhancements. Uses both computational modeling and hands-on experimentation to delve into structural reorganizations critical for boosting ballistic performance. Involves significant collaboration with faculty and peers to foster innovative practices and facilitate successful project outcomes.

- Investigation of molecular processes affecting high-strength polymeric materials for armor applications.
- Conducted comprehensive experiments analyzing properties of aramid fibers, improving their ballistic capabilities.
- Utilized computational modeling tools to predict material behavior under stress, aiding design optimization efforts.
- Authored detailed reports summarizing findings, presenting at academic forums to elevate research visibility.
- Supported proposal development for future funding initiatives, ensuring continuous research progress.
- Engaged in seminars highlighting cutting-edge advancements within chemical and materials science.

Undergraduate Research Intern

June 2025 - August 2025

Academic Research *Boston, MA*

Focused efforts on enhancing processing techniques related to aramid fibers, directly contributing to improvements in protective gear durability. Offered assistance in laboratory environments while gaining invaluable insight into project management and research methodologies.

- Participated in optimizing aramid fiber processing methods for greater structural capability.
- Executed laboratory tests assessing fiber performance across diverse conditions, impacting gear design.
- Engaged deeply in data collection and analysis to maintain robust reliability of experimental outcomes.
- Collaboratively refined testing techniques, resulting in heightened accuracy in data acquisition.
- Presented key findings during departmental meetings, gathering valuable feedback from experienced faculty.

- Maintained thorough laboratory documentation to enhance research reproducibility and transparency.

LEADERSHIP & AWARDS

- Dean's List, Northeastern University, 2023-2025
- Recipient of the Chemical Engineering Undergraduate Research Award, 2025

CERTIFICATIONS

- Certified in Chemical Engineering Principles 2026
- Advanced Polymer Materials Certification 2026

PROFESSIONAL AFFILIATIONS

- Member, Chemical Engineering Society, Northeastern University
- Volunteer, STEM Outreach Program, promoting engineering careers in local schools

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST