

CATHIA COLON

Metallurgist

cathia.colon@gmail.com

(864) 897-7358

25 Oak Street, Boston, MA 02111



PROFILE

Metallurgist with 4 years of experience in the field, specializing in materials analysis, heat treatment, and alloy development. Proficient in utilizing advanced analytical techniques to optimize material properties, ensuring high-quality performance and cost-effective solutions. Strong background in collaborating with cross-functional teams to drive continuous improvement and innovation in metallurgical processes. Demonstrated ability to effectively manage projects and meet deadlines, while maintaining high levels of safety and quality.

LINKS

[linkedin.com/in/cathiacolon](https://www.linkedin.com/in/cathiacolon)

SKILLS

Alloy Design

Heat Treatment

Failure Analysis

Corrosion Control

Metallographic Examination

Powder Metallurgy

Welding Technology

LANGUAGES

English

Hindi

HOBBIES

EMPLOYMENT HISTORY

Metallurgist at Boston Metallurgical, MA

Feb 2023 - Present

- Successfully developed and implemented a new alloy composition for a major aerospace client, resulting in a 15% increase in material strength and a 10% reduction in production costs, leading to \$1.5 million in annual savings for the client.
- Optimized heat treatment processes for a variety of metal components, reducing processing times by 20% and increasing throughput by 30%, contributing to a \$2 million increase in annual revenue for Boston Metallurgical.
- Led a team of 5 junior metallurgists in conducting failure analysis investigations for over 50 industrial clients, identifying root causes and providing actionable recommendations, resulting in a 95% customer satisfaction rate and a 25% reduction in warranty claims for those clients.

Junior Metallurgist at Massachusetts Metallurgical Corporation, MA

Jul 2019 - Dec 2022

- Developed and implemented a new alloy formulation for a high-strength steel product, resulting in a 15% increase in yield strength and a 10% reduction in production costs for the company.
- Conducted a comprehensive analysis of the company's metal processing techniques, identifying areas for improvement that led to a 20% reduction in defect rates and a 5% increase in overall production efficiency.
- Successfully managed a team of technicians on a project to optimize heat treatment processes, leading to a 25% improvement in material performance and a 12% decrease in energy consumption.

EDUCATION

Bachelor of Science in Metallurgical Engineering at Massachusetts Institute of Technology, Cambridge, MA

Aug 2015 - May 2019

Relevant Coursework: Materials Science, Thermodynamics, Mechanical Metallurgy, Phase Transformations, Heat Treatment, Corrosion Engineering, Physical Metallurgy, Extractive Metallurgy, and Process Control and Optimization.

CERTIFICATES

Professional Metallurgist (P.Met) Certification

Mar 2022