CURRICULUM VITAE

Dameli Mambetalinova, B.Eng.Soc.

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EXPERT SUMMARY

Ms. Mambetalinova is an Associate with the Materials Failure group at 30 Forensic Engineering. She holds a Bachelors in Materials Science and Engineering & Society, with a minor in Innovation from McMaster University. At 30 Forensic Engineering, Dameli investigates a diverse range of product failures, mechanical system failures, and equipment failures.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Material Science and Engineering
- Material Characterization
- Microscopy and Fracture Surface Analysis
- Metallurgical Analysis of Materials Microstructures and Mechanical Properties

ACADEMIC BACKGROUND

Bachelor of Engineering and Society – Materials Engineering, McMaster University, Hamilton, Ontario, 2025

ADDITIONAL COURSES

Principles of Failure Analysis, ASM International, Online, August 2026

Introduction to Examining Fractures, Steel Image, Hamilton, Ontario, June 2026

Working at Heights, Worksite Safety, Hamilton, Ontario, August 2025

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Materials Failure
2025 – Present, Toronto, ON

- Perform investigations in materials industry failures, including corrosion, mechanical, and cracking failures.
- Analyze physical failure mechanisms including fractography and fracture surface analysis, metallurgical analysis, plastic, and polymer failures, piping, and plumbing investigations.

- Prepare technical reports for clients summarizing findings of investigations.

Ontario Ministry of Transportation

Laboratory Services Engineering Associate
2023 – 2023, Toronto, ON

- Performed laboratory testing to assess infrastructure materials through standard and innovative tests.
- Assisted with field preparation of MTO asphalt, geotextiles, concrete, soil and aggregate test samples.
- Completed data collection and analysis of lab and field test results of highway infrastructure materials.

ArcelorMittal Maizières Research

Research and Development Intern
2022 – 2022, Maizières-lès-Metz, France

- Introduced variability in microstructure and properties prediction model of bainite formed in steel during industrial production.
- Troubleshooted the model through laboratory testing including sample preparation, dilatometry, electron backscatter diffraction, and laser microscopy analysis.

McMaster University

Teaching Assistant
2022 – 2022, Hamilton, ON

- Supported course instructor by evaluating assignments and providing constructive feedback to second-year Engineering and Society students.
- Collaborated with a fellow teaching assistant to ensure consistency in grading and feedback.

AWARDS AND ACHIEVEMENTS

- Duke of Edinburgh Bronze Level Award
- McMaster University Leadership Scholarship
- Entrance Scholarships from the University of Toronto, University of Western Ontario, York University, Toronto Metropolitan University, University of Ontario Institute of Technology, and McMaster University
- Model United Nations Best Delegate Award, Columbia International College
- Model United Nations Honorable Mention & Delegate Award, Change the World MUN, New York
- Model United Nations Honorable Mention, Toronto Metropolitan University
- Model United Nations Honorable Mention, McMaster University