

# Elena: Eco-Engineer. Conscientious Collaborator. Industrial Innovator.

## SUSTAINABLE MANUFACTURING PROCESS ENGINEER

### Overview

Who applies principles and practices of green engineering and green chemistry to process quality and innovation in lean manufacturing? Who performs as a key hybrid merging engineering with a commitment to holistic sustainability and stakeholder needs: eco-friendly quality, safety, reliability, and cost? The Sustainable Manufacturing Process Engineer originally designs, continuously improves and retrofits processes to conserve energy and natural resources, decrease hazards, improve safety and contribute to regenerative life strategies. These engineers create and implement the backbone of sustainability not only for compliance or as the right thing to do, but as the best option for the bottom line and for increasing manufacturing innovation.



“ I collaborate with eco-informed business and science teammates to make production and processing lean, clean and green. Like other traditional roles, mine now includes wearing an Environmental, Social, and Governance (ESG) hat with my Engineer hat. I leverage new innovations from material synthesis, chemistry, energy management, waste management, ecosystem management, production, packaging, multi-use, you name it... we engineer it for non-hazardous, low impact outcomes. With data from connected digital systems, we model, spec and track practices to ensure they're economically and environmentally sound. ”

### Target Technical and Personal Competencies

- Green Chemistry Practices (pure processing and product streams)
- Green Engineering Practices (sustainable systems from the start)
- Sustainable Business Practices (circular economies and ESG)
- ESG Reporting, Metrics, Valuation and Messaging
- Process Design and Management for optimal holistic sustainability
- Certifications: Six Sigma (Green Belt +); OSHA; EPA; ABET
- B.S. in Mechanical, Chemical, Electrical, Industrial, Environmental Engineering; Sustainability

### Sample Related Roles

- Process Engineer
- Manufacturing Engineer
- Sustainable Manufacturing Process Technician
- Chemical Process Engineer
- Materials Process Engineer
- Process Quality Engineer
- Environmental Engineer
- Biochemical Engineer
- Climate Engineer
- Clean Energy Engineer

### Where to find engineering candidates like me

- Green Chemistry Alliances
- Green Engineering Alliances
- Technical or Business Subject Matter Experts: Natural Sciences and Materials, Renewable Energy, Bio-business, and Other Sustainability Domains
- Process and Stage Experts: Design, Formulation, Automation, Processing, Production, Deconstruction & Reuse, Benign Disposition and Regeneration/Restoration
- R&D settings, Lab and Innovation Settings
- Sustainable Business & Technology Transformation Teams

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