



## Md Asef Al Alam

**Circular Economist; Life Cycle Analyst; Apparel Engineer**

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### Education

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#### **Norges teknisk-naturvitenskapelige universitet (NTNU) | Leiden Universitet | TU Delft – MSc Circular Economy (2022-2024)**

Core Study material:

Life cycle assessment | Material flow analysis | Climate change & mitigation | Input-output analysis | Python for sustainability analysis | Expert in teamwork | Sustainability challenge | Thesis preparation course

#### **North South University – MSc Environmental Science and Management (2019-2022)**

Core Study material:

Environmental pollution control | Biodiversity and Ecology | GIS | Urban Environmental Management |

#### **BGMEA University of Fashion and Technology – BSc Apparel Manufacturing and Technology (2013-2017)**

Core Study material:

Industrial Engineering | Visual Merchandising | Yarn manufacturing | Fabric manufacturing | Dyeing, printing, and finishing | Statistics | Apparel production technology |

### Core Competency

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|---|---|
| • Construction of life cycle inventory        | • Material Flow Analysis (MFA)                    |
| • Life cycle assessment (LCA)                 | • Project planning                                |
| • Textile processes and apparel manufacturing | • Academic manuscript and business report writing |

### Work Experience

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#### **Summer Intern – NF&TA (June 2023 – August 2023)**

- Developed a comprehensive report on the collection, sorting and recycling technologies (conventional and emerging) of discarded textiles in Norway. Mapped out the possible actors (upstream and downstream) involved in the Norwegian textile end-of-life management.

- Developed a commentary note on the opportunities and barriers of circular packaging of textile in Norway, incorporating conventional materials used in textile industry throughout the value chain.

Supervisor: Gro haram

#### **Summer Intern as a Research Assistant – Department of EPT, NTNU June 2023 – August 2023**

- Developed a life cycle inventory framework of each of the conventional production process of high-purity alumina (HPA)

- Constructed a scientific manuscript based on a comparative environmental impact analysis through the lens of life cycle assessment (LCA) for conventional HPA production.

Supervisor: Johan Berg Pettersen

#### **Research Assistant – Department of ESM, NSU September 2019 – June 2022**

- Contributed to an internationally collaborated project as a lead research assistant (LCA team) on “Challenges and opportunities for promoting soil and ocean-friendly plastic substitutes in sub-Saharan Africa and South Asia: country case-studies” on behalf of Forum for Sustainability through Life Cycle Innovation e.V. (FSLCI), Neue Promenade 7, 10178 Berlin, Germany

Research supervisor: Prof. M. Mosharraf Hossain and Dr. Mohammad Sujauddin.

#### **Teaching Assistant – Department of ESM, NSU September 2019 – June 2021**

- Under the supervision of Dr. Mohammad Sujauddin. 2018-2021. Responsibilities included taking senior-level classes on topics related to LCA (fundamentals of LCA, LCA in EIA).

- Provided training through a workshop on the basics, application of life cycle assessment and SimaPro.

### **Market Research Analyst – Noman Group, Dhaka December 2016 – July 2019**

- Managed textile procurement and shipment projects for fashion and home textile
- Executed fabric and fashion development projects for clients based in the US and UK.

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### **Scholarship And Publication**

#### *Published scientific manuscript:*

- Taking stock of the share of global environmental burden of knitwear production in Bangladesh: Constructing the life cycle inventory. DOI: <https://doi.org/10.1016/j.jclepro.2023.137376>
- Modeling the environmental and social impacts of the handloom industry in Bangladesh through life cycle assessment. DOI: <https://doi.org/10.1007/s40808-022-01491-7>
- Measuring Environmental Impact of Agricultural, Manufacturing, and Energy Sectors in Bangladesh Through Life Cycle Assessment. DOI: [https://doi.org/10.1007/978-3-030-95542-7\\_3](https://doi.org/10.1007/978-3-030-95542-7_3)

#### *Scholarship*

- Erasmus Mundus Joint master's degree Scholarship for MS Circular Economy 2022-2024

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### **Skills**

**Software:** MS Office (Word, Excel, PowerPoint), Python, SimaPro, Brightway activity browser, OpenLCA (LCA software), STAN, eSankey (MFA software), Zotero (reference management tool)

**Languages:** English (Bilingual), Norwegian (Beginner)

#### **Referee:**

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##### **Johan Berg Pettersen**

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