

# Tinotenda Mubaiwa

Materials and metallurgical engineer



## Personal details

Tinotenda Mubaiwa

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## Skills

Cooperative and communication skills.

Interpersonal and collaborative skills.

Systematic planning, execution and dissemination.

Data analysis, proactive and solution oriented.

## Languages

English	● ● ● ● ●
Shona	● ● ● ● ●
Russian	● ● ● ● ●
Norwegian	● ● ● ● ●

## Profile

With a passionate approach and a practical mind, I am strongly oriented towards research and development in metallurgy, materials technology and sustainable engineering solutions, processes and methods that address society's needs. My enthusiasm for sustainability drives my commitment to creating innovative and environmentally friendly solutions.

## Education

### PhD Materials Science and Engineering (Process Metallurgy)

Jul 2022 - Present

Norwegian University of Science and Technology (NTNU), Trondheim

- Sustainable hydro and pyrometallurgical silicon production from waste materials.
- Experimental recovery and purification of industrial silicon waste using low and high temperature metallurgical processes (e.g. acid leaching and vacuum refining).
- Dissemination of technical data on recycling and at national and international conferences.

### MSc. Materials Science and Engineering

Aug 2017 - Jun 2019

National University of Science and Technology - MISIS, Moscow

- Characterization, mechanical and corrosion testing, finite element analysis (FEA) for deformation.
- Thermomechanical treatment of amorphous metals (metallic glasses) to improve plasticity.
- Alloy design of advanced metallic materials.

### BSc. Metallurgical Engineering

Aug 2012 - Jun 2016

University of Zimbabwe, Harare

#### Extractive and Physical metallurgy:

- Hydrometallurgy, pyrometallurgy, materials technology, corrosion engineering

#### Leadership roles:

- Student representative for metallurgical engineering class.
- Projects coordinator for Engineering Students Association (2014-2016).
- Interim president of Mining and Metallurgical Students Association.

## Employment

### Researcher

Jul 2022 - Nov 2025

Research Centre for Sustainable Solar Cell Technology (FME-SuSolTech),  
Trondheim

- Characterization of industrial silicon waste.
- Design and execution of experimental protocols for hydro and pyrometallurgical processes to enhance silicon recovery rates.
- Data analysis.
- Dissemination of technical data on recycling and at national and international conferences.

### Researcher and Junior Lecturer

Sep 2019 - Dec 2021

University of Zimbabwe, Harare

# Hobbies

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- Story telling
- History and biographies
- Football and cricket

- Instruction and mentoring of undergraduate students in metallurgical engineering principles and laboratory practices.
- Faculty coordinator for engineering student projects and projects competitions.
- Investigator and researcher in the Zimbabwe and Botswana BIF4 Joint Research on coal beneficiation for the metallurgical industries (RCZ-BIH).

## References

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