

MICHAEL KWESI APEMAH

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Career Objective

I am seeking the role of a Materials/Metallurgical engineer in your reputable company.

Work experience

08/10-05/12 Teaching/Research Assistant, New Mexico Tech.

- Researching on improving the ductility of nanostructured aluminum alloys while maintaining high strength.
- Assisting undergraduates in their lab work.

08/08-07/10 Teaching Assistant, University of Ghana.

- Organizing tutorials for undergraduate students and assisting with project work.
- Grading student's assignments.
- Handling Administrative work.

10/06-08/07 National service Person, Aluworks Ltd, Ghana.

Worked in the **casting department** with the following responsibilities:

- Tip shop operator: Preparing ceramic tips, head boxes, tap-out boxes, metering rods and floats.
- Caster operator: Monitoring the casting process by controlling caster panels.
- Tip shop operator: Preparing ceramic tips, head boxes, tap-out boxes, metering rods and floats.

Projects

- **"Failure Analysis of a Bicycle Seatpost."** SEM, EDS and Vickers test were used to conclude that seatpost failed in fatigue mode.
- **"Characterization of Ti-22Al-21Nb at% Alloy."** Different phases were identified using SEM and EDS and it was concluded that while the alloy has creep resistance, it has limited low temperature applications.
- **"Case study on the operations of small scale foundries in Ghana."** This was a senior year undergraduate project.

Research Presentation

M. Apemah et al, "Deformation Processing Effects on RT Properties of a Nano Crystalline (NC) Al-Mg Alloy", RGSAM, Albuquerque, October 3,2011.

Education and Training

08/10-05/12 Graduate student, New Mexico Tech, MS in Materials Engineering (GPA 3.34)

10/02-06/06 BS in Materials Engineering KNUST, Ghana.

03/09 Diploma in Financial Management, The Institute of Commercial Management (ICM, UK)

Skills and Competencies

- Tensile, compression and hardness testing of materials.
- Materials analysis techniques such as DTA, DSC, XRD, and SEM.
- Labview for data acquisition.

Extracurricular activities

Treasurer, National Society of Black Engineers, New Mexico Tech Chapter.