Engr. Kwa Dakwa Yusuf

Engineering Materials Development Institute (EMDI) PMB 611, Ondo Road, Akure.

2nd September 2025

The Grant Committee
NASENI Research Commercialization Grant Program

Endorsement of Dr. Anamu U. Silas' Proposal

Dear Members of the Grant Committee,

I am pleased to endorse the proposal by **Dr. Anamu Ufoma Silas**, titled "Development of Lightweight and Ultra-strong Ti40Nb15Mo30(NbC)15 Refractory Alloys for Energy-efficient Transportation Systems." Dr. Anamu is a highly capable researcher with strong expertise in computational materials science design and a proven track record in advanced alloy development.

This project directly addresses Nigeria's need for innovative materials in sustainable transportation, defence, and aerospace. By integrating titanium, niobium, molybdenum, and insitu niobium carbide reinforcements, the proposed alloy offers an outstanding balance of light weight, ultra-high strength, and high-temperature stability. These qualities will reduce fuel consumption and emissions in vehicles and aircraft while strengthening the reliability of defence and aerospace components.

The anticipated impact is significant, which will result in improved energy efficiency, reduced import dependence, enhanced local manufacturing capacity, and alignment with Nigeria's economic diversification and climate sustainability goals. I am confident that Dr. Anamu has the technical expertise and commitment to deliver these outcomes and ensure successful commercialization.

I strongly recommend this proposal for funding under the NASENI Research Commercialization Grant Program.

Yours sincerely,

Mr. Kwa DaKwa Yusuf