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Ref: NASENI/Grant-App/2025

Date: 19th September 2025

To:

The Executive Vice Chairman/CEO

National Agency for Science and Engineering Infrastructure (NASENI)

LETTER OF INTENT TO SUBMIT RESEARCH PROPOSAL FOR

IMOLEDE: SMART SOLAR ENERGY DEVICE AND MANAGEMENT SYSTEM

Dear Sir/Madam,

I am writing to formally express my intent to submit a research proposal under the NASENI Research and Development Grant Scheme. The proposed project, titled “ImoleDe: Smart Solar Energy Device and Management System”, is designed to advance indigenous innovation in solar energy technology through the integration of Internet of Things (IoT), embedded systems, and artificial intelligence.

The research developed, a smart solar energy device and management system that optimizes energy usage in households and businesses. The system monitors and controls real-time energy generation and consumption, prioritize load scheduling based on solar availability, and enhance user control through mobile application. By enabling intelligent automation and data-driven decision-making, ImoleDe aims to improve energy efficiency, reduce waste, and promote sustainable living. Ultimately, it empowers users to maximize the value of their solar investments while ensuring reliable and cost-effective energy management.

I am currently affiliated with the Federal University of Technology, Akure, where I serve as a Professor at the Computer Engineering Department, the Principal Investigator at the Smart Systems Research Laboratory and the Director of the Centre for Career Services. My research team comprises professionals with expertise in embedded systems, AI, and renewable energy technologies. We are committed to delivering innovative and impactful solutions that align with National Agency for Science and Engineering Infrastructure's mission to foster technological development and infrastructure in Nigeria.

My Team and I understand the requirements and guidelines of the NASENI Research Proposal Application and are prepared to submit a comprehensive proposal before the stated deadline. We also affirm our willingness to comply with all reporting, monitoring, and evaluation procedures as stipulated by NASENI.

Thank you for considering our intent. We look forward to the opportunity to contribute meaningfully to NASENI's vision and Nigeria's energy future.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'Folasade M. Dahunsi'.

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