**Vacancy for Technical Assistant - (Fulltime)- One (01) Position**

Applications are invited for **Research Assistant/Student** position of Faculty of Technology, Sabaragamuwa University of Sri Lanka for the project of Design and Development of Multi Mould Packing Machine for Bio Degradable Packing Material Using Bagasse Ash, Paper Pulp and Yarn Waste, under the ADB competitive research grant scheme.

**Title of the research project:**

- Design and Development of Multi Mould Packing Machine for Bio Degradable Packing Material Using Bagasse Ash, Paper Pulp and Yarn Waste

(Partnership with Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka)

**Introduction:**

At present, paper waste, yarn waste is ultimately disposed to the environment after consumption by the final consumer. This is not a safe solution for final disposal of this abundant waste, because it causes significant changes in the physical and chemical characteristics of the soils and environmental problems. Thus, efforts should be done in order to find a permanent solution for the final disposal of this paper waste and yarn waste into a value-added application. There are number of biodegradable materials developed as composites for packaging materials while less motivations to use bagasse ash waste as a composite additive. This research project is aimed to develop a packing material composite with paper, bagasse ash and other materials like yarn and graphene to enhance the mechanical properties and reduce the raw material usage of paper pulp. As the final outcome, a pilot plant facility for biodegradable packaging will be developed with the research outcomes. Candidate will mainly involve in the material development and plant development work and he/she will get the chance to work with relevant industries for sample preparation and testing work.

**Grant Amount: Aprox : 34 000 000 LKR**

**Investigators:**

**-** Prof K.R. Koswattage

- Mr. S.V.A.A. Indupama

**Educational Qualifications:**

(1) GCE/ AL Passed

(2) Experience in Machine design, and planning Knowledge and experience of using design and simulation software like SolidWorks/AUTOCAD/ANSYS/FEMAP / ABAQUS is an added advantage.

**Field of studies**: Research work related bio degradable material optimization and establishment of pilot plant dedicated for food packaging will be performed under the supervision of research team members.

**Period of appointment:**

- Every six month extension up to one year for **Research Assistant/Student**

**Remuneration:**

1. Monthly allowance of Technical Assistant – 25000 LKR

Starting Date: From July/ 2024

Closing date of application:

**July 02 , 2024**

Interested candidates are requested to forward (email) a CV with names and contact details of two nonrelated referees on or before the closing date to amalka@tech.sab.ac.lk

More information could be abstained by contacting investigators on 071-360-4319 (Mr. S.V.A.A. Indupama)