

## Call for applications

### **Development of a Web platform (Industrial Liaison Management System - ILMS) to link technical universities in Kenya and Industry.**

**Deadline and requirements:** if interested, kindly send through your application by **October 24<sup>th</sup> 2020** to Mrs. Solveig Gathelier, Higher Education Officer at the Embassy of France in Kenya: [solveig.gathelier@diplomatie.gouv.fr](mailto:solveig.gathelier@diplomatie.gouv.fr) & Mrs. Maureen Ooko, Communication Officer at the French Chamber of Commerce Kenya: [mooko@frenchchamber.co.ke](mailto:mooko@frenchchamber.co.ke).

Your application should include:

- **a proposal for the development and design of this platform;**
- **a detailed budget;**
- **a timeline.**

While creating this platform, you will be expected to liaise with its two main beneficiaries: Technical University of Kenya and Technical University of Mombasa, as well as the Embassy of France in Nairobi and the French Chamber of Commerce in Kenya, who will be collecting the point of view of the companies.

Progress meetings among all above-mentioned actors will also take place on a regular basis in order to evaluate the work progress and assess if the functionalities created by the developer meet the stakeholder's interests.

**A test version of the platform is expected to be ready by December 15<sup>th</sup>.**

All the details about users, storage, server and technologies should be specified in the application, including but not limited to:

1. What platforms/software will be used.
2. What additional licenses or payment are required annually or monthly after the development.
3. How many users are allowed to be connected for live streaming.
4. What is the limit regarding documents/ videos posted by each user (MB/ GB). This limit may vary according to the privileges of the user (refer to page 4).
5. How many users are allowed simultaneously on the platform.
6. If it will be fully web or will require desktop applications.
7. The budget submitted should also include maintenance for a period of 3 years.

## GENERAL OUTLINE FOR THE REQUIREMENTS OF THE INDUSTRIAL LIAISON MANAGEMENT SYSTEM (ILMS)

### Introduction

The ILMS aims to align teaching and training to the needs of modern industrial practice between the Technical University of Kenya (TUK), Technical University of Mombasa (TUM) and companies in Kenya with the support of the French embassy in Nairobi and the French Chamber of Commerce in Kenya (CCI). The ILMS comprises the relevant educational approach and the necessary ICT configuration for the facilitation of interaction between industry and academia. The ILMS aims at a two-way knowledge communication between academia and industry.

This is the summary of the minimum requirements of the ICT platform and tools required to enable the interaction between the students/knowledge workers and the industry.

### Highlight of the business logic for the ICT platform

To understand the required ICT system, it is imperative to understand the process flow between factory/company and classroom and vice versa. This is depicted below (factory/company-classroom flow). The paradigm divides the process into five (5) categories namely Factory, Study Content, Delivery Mechanism, Delivery ICT Technology and Classroom.

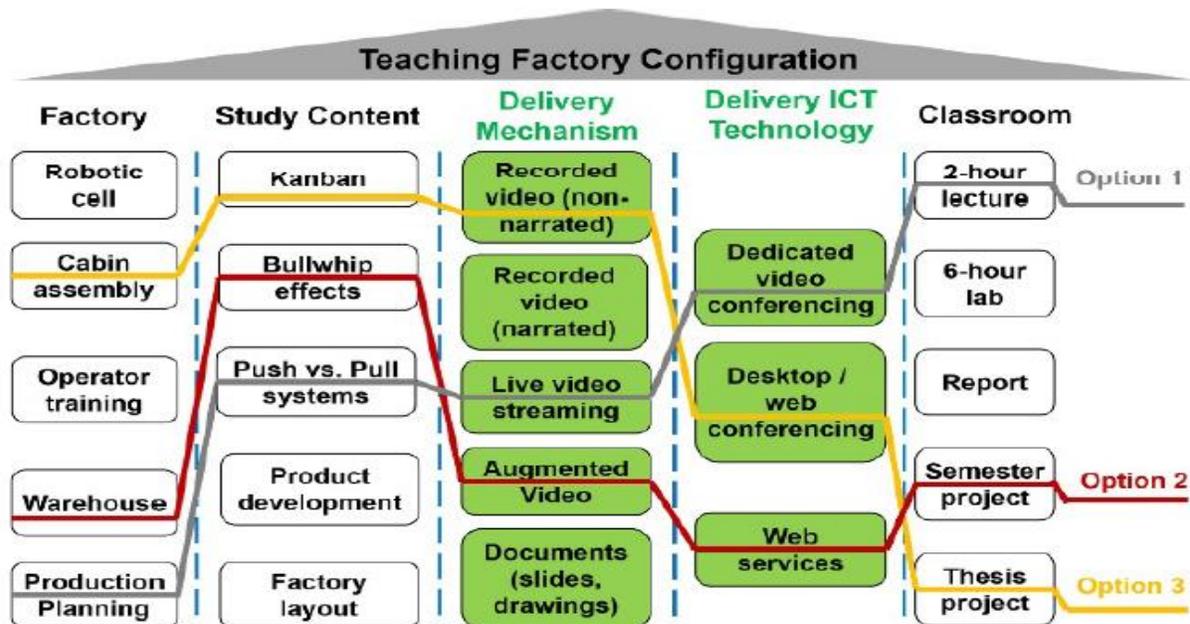


Figure 1: Segmentation of the industrial liaison process

### Factory

This section represents the modules/departments corresponding to the production/processes the company is involved in.

### Study Content

This defines the curriculum/content developed by the factory for delivering skills/techniques required in each module/department.

### Delivery Mechanism

The delivery mechanisms are responsible for the communication of knowledge and interaction capabilities between the factory and classroom. These are materials used to delivery concepts. Includes videos, live streaming, power point presentations, drawings etc.

### Delivery ICT Technology

This category performs the actual connectivity between the students, lecturers and the factory. They include equipment dedicated for video conferencing, web services and live streaming.

### Classroom

This category includes methods and means through which students can access the resources from the factory and the lecturers. They include lectures, projects etc.

Based on this framework, the system should be able to perform the following functions on the minimum.

### Factory Modules

Among others, these module should be able to:

- Allow companies to create and maintain their profiles on the web platform  
This will allow companies to publish what kind of product/services they deal in and the kind of skills they are interested in.
- Allow companies to publish job opportunities, industrial internships and training opportunities.
- Allow companies to view the database of student's profiles and CVs for potential recruitment.
- Allow companies to post news (upcoming trainings, product launch, product design and problem solving etc.), periodicals and updates regarding products and services changes and trends.
- Allow for communication between companies and universities' departments and industrial liaison offices
- Allow for publishing/advertisement of funding opportunities for projects and studies

### Study Content Modules

These modules should:

- Allow companies to create and maintain courses/trainings corresponding to their business processes;
- Allow companies to announce upcoming trainings/courses/internships;
- Allow companies/universities invite hosts/panelists;
- Enable sharing of research findings between universities and companies and between TUK and TUM universities;

- Allow for student testing and evaluation;
- Allow for publishing of research and project outcomes.

#### Delivery Mechanism & Delivery ICT Technology Modules

The modules under these categories should have functionalities enabling the delivery of study content as well as interaction between students, lecturers and company. These functionalities include:

- Live streams
- Videoconferencing
- Document sharing

#### Classroom Modules

These modules should have functionalities that enable the students to interact with the lecturers and the industry. Among others, the modules should:

- Enable students to create their profiles and upload (maintain) their CVs, motivation letters and short videos;
- Enable students to view and apply for posted job/internship/scholarship opportunities;
- Enable companies to contact students and lecturers;
- Enable students to collaborate;
- Enable lecturers to collaborate;
- Enable students to enroll for advertised trainings/courses;
- Enable students to get training feedback from companies and lecturers;
- Enable the students to access training material and attend online trainings.

#### Privileges

There should be three (3) different levels of privileges:

- The platform should have 10 super users distributed between the French Embassy and CCI, TUK and TUM with full rights to publish and delete content.
- Companies and teachers, alumni and staff will be allowed to publish directly on the website.
- The students will only have rights to manipulate the profiles.