Profile Status: Published

Technology Offer

A French Technology Office offers a software to predict the kinetic of the drying process for food-processing plants

Summary

A French Technology Office (TTO) offers new software predicting the kinetic of the drying process for food-processing factorys areas, bioburden's evolution and dimensioning of air dryer. This approach has been already tested especially against Listeria bacteria.This technology is ecofriendly because it allows a better use of water and cleaning agents. The French TTO is looking for industrial partners for a technical cooperation agreement or a license agreement.

Creation Date	11 October 2018
Last Update	15 October 2018
Expiration Date	16 October 2019
Reference	TOFR20180720005
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/838c4bdc-61be-4560-8eca-e912575b95ab

Details

Description

The French TTO (Technology Transfer Office) is acting on the behalf of a public laboratory of the leading French scientific based in the Paris region.
How to control the humidity in a food-processing plant after cleaning by water?
How to improve the drying process to reduce bacterial growth on different areas?
A French lab has developed a numerical tool predicting the kinetic of drying process inside a food-processing plant (floor, walls, equipment) in accordance with air's characteristics(temperature, relative humidity and air velocity) and also foretold microbial burden evolution on these surfaces and dimensioning of an air dryer to reduce humidity efficiently.
The user inputs his data in the software based on his factory's parameters and then can visualize the impact of the cleaning process on the humidity of the floors, the walls and the equipment, as well as on the bacterial inactivation (of Listeria, for example).

Several type of applications could be planned:
- Agrofood
- Design food-processing factories, sizing of the air dryers
- Food safety (monitoring bacterial presence)
- Manufacturing of chilled products (no-bake food, butcher shop...)

The partner could be a company interested in :

- a license agreement as the TTO is ready to negociate directly the patents rights for specific applications, or
- a technical cooperation agreement

Advantages and Innovations

Currently no solution available on the market permits to have a overview of the drying process in terms of water, etc...

The advantages of this technology:
- energy savings
- control of the waste/residual water
- improvement of the factory's drying process
- reduction of the bacterial growth

At a second stage, more precise data could be given.

Stage of Development

Available for demonstration

Comments Regarding Stage of Development

The software has been developed as part of the national R&D program delivering solution for air dehumidification, minimizing Listeria monocytogenes survival in refrigerated plants while allowing energy savings.

IPR Status

Trade Marks,Copyright

Comment Regarding IPR status

The proprietary software could be licensed.

Profile Origin

National or Regional R&D programme

Keywords

Technology

01004001	Applications for Health
01004010	Quality Management System
01004017	Work Hygiene and Safety Management

Market

07003002	Health food
07003003	Soft drinks and bottling plants
08003007	Other industrial equipment and machinery

NACE

N.82.9.9	Other business support service activities n.e.c.

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Relevant Sector Groups

Agrofood

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

1981

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
French

Client Country

France

Partner Sought

Type and Role of Partner Sought

The partner sought could be a company interested in a license agreement or a technical cooperation agreement.
The industrial partner could be an agrofood company or a design department or an engineering office.
A laboratory visit could be organised to have a better understanding of this technology.

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

License agreement
Technical cooperation agreement

Profile Status: Published

Technology Request

A UK based start-up is seeking a technology partner to develop further the machine learning algorithms of its product.

Summary

The company is a UK start up, based in London. It provides automation and Artificial Intelligence (AI) power decision supporting solutions for the construction industry. The company is currently at the minimum viable product (MVP) stage and is seeking a technology partner to develop further the machine learning algorithms of the product. The envisaged cooperation will be under a service agreement.

Creation Date	15 February 2018
Last Update	10 April 2018
Expiration Date	11 April 2019
Reference	TRUK20180215001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/223fea98-41ba-4d00-a87f-9926a8109e56

Details

Description

The London based start-up is developing an AI assistant to help engineers and architects during their day-to-day job.
The platform collects the large quantity of data produced on a daily basis and using AI helps professionals to prioritise their tasks by interactively providing them with suggestions and insights in real time.

Currently, the company has two main goals they need to achieve in order to develop the product fully: first, it aims at creating a database through optimisation algorithms and proven real solutions to train its AI; secondly, it needs to develop a user friendly Graphical User Interface (GUI) for the engineers' workflow.

For this purpose, it is looking to partner with a technology company under a service agreement. The partner will help the company to further develop the product in terms of user interface, user experience and use machine-learning algorithms to improve the recommendation system.

Technical Specification or Expertise Sought

The company is seeking a technology partner with a prior experience in Artificial Intelligence products, possibly in the construction industry.

The ideal partner needs to have experience in machine learning applied to graphs and user interface. The partner can be an experienced web developer or engineer or architecture company, possibly with experience in working with early stage start-ups.
The company has no specific requests in terms of country of origin, as long as the partner will be able to work and communicate in English.

Keywords

Technology

02006006	Construction engineering (design, simulation)
02006007	Management of construction process & life

Market

02007001	Systems software
02007004	Program development tools/languages
02007007	Applications software
02007014	Other industry specific software
02007016	Artificial intelligence related software

NACE

F.43.9.9	Other specialised construction activities n.e.c.
J.62.0.1	Computer programming activities
J.62.0.3	Computer facilities management activities
J.63.1.1	Data processing, hosting and related activities
J.63.1.2	Web portals

Network Contact

Issuing Partner

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Italian

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

The company is looking to partner with a technology company to help to further develop the product in terms of user interface, user experience and use machine learning algorithms to improve the recommendation system. This will help the company to develop a final product to launch into the European market by the end of the year.
The ideal partner needs to have experience in machine learning applied to graphs and user interface. The partner can be an experienced web developer or engineer or architecture company. The envisaged collaboration will be under a service agreement.

Type of Partnership Considered

Services agreement

Profile Status: Published

Technology Offer

UK company is looking to integrate its solid-state battery with Internet of Things applications

Summary

A UK company has developed a patented solid-state battery technology that uses ceramic ion conductor instead of conventional electrolytes. It has distinct benefits over lithium-ion batteries in number of areas, incl. energy efficiency, faster charge and longer life-span. The company is looking for energy harvesting and sensor companies who have Internet of Things technology to integrate with their new batteries. Commercial agreement with technical assistance or license agreement can be offered.

Creation Date	01 June 2018
Last Update	05 June 2018
Expiration Date	06 June 2019
Reference	TOUK20180601002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b11a3a9e-430a-44c5-876f-4344536dd13e

Details

Description

The UK company has been a solid-state battery technology innovator since 2008. It has developed a type of lithium-ion battery, which, instead of using the usual liquid or polymer electrolyte, uses a ceramic ion conductor. This is particularly important because battery technology is a key challenge in the electronics space, with the Internet of Things (IoT) being a key driver of growth in the market and battery technology development.

IoT devices offer a different set of battery challenges compared to other electronic devices. They have similar pressures, such as cost and availability, but they also have some specific requirements, such as:
- Small size in both footprint and thickness
- Ability to be trickle charged
- Charged only when an energy harvester can get energy
- Longer life span to match those of sensors and Microcontroller Units (MCU)
- Support wider temperature ranges

These challenges need a different approach to battery technology. In response to that, the company has developed very small footprint, energy dense batteries, with distinct benefits over the conventional lithium-ion batteries. Instead of a liquid or polymer electrolyte, the company's patented technology uses a ceramic ion conductor. Among the benefits this provides are faster charging and up to 10 years' life span because of the battery's very low leakage currents. It is

non-flammable and can be integrated into integrated circuit components to reduce end device size. When paired with an energy harvester, the battery can provide a truly fit-for-life performance. It is particularly designed for IoT applications, tackling on the four main battery requirements: miniaturisation, capacity in a small footprint, increased performance and high capacity.

The company is looking to offer commercial agreement with technical assistance or license agreement to partners who have Internet of Things technology to integrate with their new batteries, such as developers of sensor technologies, energy harvesting technologies, wireless chips and other equipment manufacturers in the industrial, electric vehicles and medical sector.

Advantages and Innovations

The company's solid state battery technology has several benefits over currently available lithium-ion batteries:

- Up to 10 years' life span
- Faster to charge
- 40 % improvement in energy density per footprint
- Low leakage currents
- Increased temperature range to 100°C (30°C higher than the existing products)
- Non-flammable
- Can be integrated into integrated circuit (IC) components to reduce end device size

Stage of Development

Already on the market

IPR Status

Granted patent or patent application essential

Profile Origin

Private (in-house) research

Keywords

Technology

04001003	Storage of electricity, batteries

Market

06008	Energy Storage

NACE

C.27.2.0	Manufacture of batteries and accumulators

Network Contact

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Open for EOI : Yes

Dissemination

Relevant Sector Groups
Materials

Client

Type and Size of Organisation Behind the Profile
Industry SME 11-49

Year Established
0

Already Engaged in Trans-National Cooperation
Yes

Experience Comments
ISO 9001:2015

Languages Spoken
English

Client Country
United Kingdom

Partner Sought

Type and Role of Partner Sought
The company is seeking commercial partners to develop and deploy integrated IoT solutions by combining its batteries with sensors, energy harvesters and radio chips. The company will consider either a commercial or license agreement.

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance