INDOOR VERTICAL GREENERY WITH AUTO IRRIGATION SYSTEM AND SMART MONITORING SYSTEM

TECHNOLOGY OVERVIEW

Vertical greenery represents a new dimension in greenery-related infrastructure, where plants are incorporated within vertical surfaces. However, the process for irrigation and maintaining the plant could be tedious due to the arrangement of plants on vertical surfaces. This system uses smart sensor and timer to control the irrigation system. In addition, it provides a mobile apps platform for users to monitor the condition of the plant and the ability to overwrite the system and irrigate the plant as and when needed.

POTENTIAL APPLICATIONS

- Auto Irrigation System
- Smart Sensors and Control System
- Automated Growth Light
- Mobile Apps for monitoring and control

BENEFITS

- Save Time
- Increase productivity
- Easy Maintenance
- Absorbs the impurity of air and also improve air quality

COMMERCIALISATION

The technology is available for licensing.

CONTACT DETAILS

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Looking for an open innovation partner? Contact Republic Polytechnic today!

Whether you are looking for new ideas to improve your current business flow, need access to research and technology expertise, or require facilities to bring your innovative ideas to life, we may be the partner for you.

At Republic Polytechnic (RP), we bridge the gap between knowledge and application by facilitating information and technology transfer to industry partners. Taking a holistic approach, our team of experts can assess your business needs, provide consultancy, conduct feasibility studies, and render support to help increase your company's competitiveness.

Facilities and Equipment
RP is home to state-of-the-art facilities and the latest technology, which are on par with industry standards. You can access these facilities by collaborating with RP on joint projects or through facility and equipment rentals.

Research and Development
Transform your ideas into reality. RP's multi-disciplinary applied R&D centres can work with you in many different ways, including exploiting new technologies, developing new products and streamlining processes.

Current Opportunities for Collaboration and Commercialisation

- Innovative Single-tube Multiplex Diagnostic Platform for Dengue and Chikungunya Viruses
- Low Cost Wireless Patient Weight Measurement System for the Physically Impaired and Bedridden
- New Catalysts for Sustainable Liquid Biofuels
- New Chemical Entities with Potential Applications in Photodynamic Therapy
- Thermoelectric Micro-coolers for Electronic and Optoelectronic Applications
- Visual Sentiment Analytics for Social Media Analysis
- Wireless Proximity Sensing for Safety and Security Applications
- Wireless Stress Monitoring System
- Portable Hydrogen Generator and Low Cost Hydrogen Fuel Cell System Development
- All-Solid-State Lithium Ion Thin Film Micro Battery
- Cloud-based Logistics Tracking

For more details, visit **http://www.rp.edu.sg/Industry.aspx**, or email us at **help-otd@rp.edu.sg.**