

Date: 9 November 2018

Automation & Robotics, Advanced
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Built Environment Research &
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Circular to Professional Institutes / Associations

Dear Sir / Madam,

GRANT CALL FOR BUILT ENVIRONMENT ROBOTICS R&D PROGRAMME

Introduction

1. The Built Environment (BE) Robotics R&D programme is a multi-agency effort, led by the Building and Construction Authority (BCA) together with the National Robotics Programme (NRP), that recognises the opportunities that robotics can offer in improving efficiency, safety and quality of work processes, reduce manpower and creating new higher value-adding job opportunities in the BE sector.

Eligibility

2. Principal Investigators (PIs) from all Singapore-based institutions of higher learning (IHLs), public sector agencies and not-for-profit research laboratories as well as companies and company-affiliated research laboratories/institutions, are eligible to apply.

3. The Lead PI who leads the Research must be based in Singapore and collaboration with foreign organisations and experts in the capacity of Co-Principal Investigator (Co-PI), or as Collaborator is allowed. Research work should be done in Singapore unless expressly approved by the grantor.

4. Grant applicants should collaborate with companies in the construction industry and government agencies to develop innovative solutions that can address the call objectives and demonstrate strong potential for real-world application within Singapore. The collaboration, whether as Co-I or Collaborator, shall be included in the proposal.

Scope of Grant Call

5. The following are the topics under this grant call:
- (a) Automated lane closure – Automated Lane Closure (ALC) solutions for road works to place and retrieve standard sized traffic cones and signage on the road in accordance with the Code of Practice for Traffic Control at Work Zone without having any workers directly on the road.
 - (b) Site monitoring robot – Solutions to autonomously collect the survey data at each of the monitoring points (inclinometers, settlement markers and prisms) located in a major civil engineering project.
 - (c) Heavy materials transport robot – Heavy materials transport robot solutions to transport heavy materials or building components across the building site and to the designated floor.

Funding support

6. The Built Environment Robotics R&D Programme will support 100 percent of the approved qualifying direct costs of a project for Singapore-based IHLs and Research Institutes (RIs), public sector agencies and not-for-profit hospitals and research laboratories. Companies and company-affiliated research laboratories or institutions will qualify for up to 70 percent of the approved qualifying direct costs of a project.

Application

7. The full details of the grant calls and all related documents can be downloaded from the following website:

https://www.bca.gov.sg/ResearchInnovation/BE_Robotics_R&D_programme.html

8. All proposals must be submitted to BCA_ROBOTICS@bca.gov.sg by **11 JAN 2018, 2359 hrs. Late submissions or submissions from individual applicants without endorsement from the Host Institution will not be entertained.** It is advised to restrict submissions to 10 MB.

9. For more info, please contact the Secretariat at: BCA_ROBOTICS@bca.gov.sg

Thank you.



TAN TIAN CHONG
DEPUTY MANAGING DIRECTOR
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