

## Seeking Viable Alternatives for the Attraction of Mosquitoes to Field Monitoring Traps

Rentokil Initial is seeking viable alternatives to the use of dry ice and bottled carbon dioxide for the **attraction of mosquitoes to field monitoring traps**.

Current field monitoring traps for vector species of mosquito rely on the deployment of **dry ice** or the regulated emission of **carbon dioxide** from pressurised canisters either directly or through the burning of propane. These traps are hampered in their requirement of a **power supply** and/or the dispensation of relatively high environmental concentrations of carbon dioxide that leaves them open to theft and damage. This approach to attraction also has a **negative environmental impact**.



**Alternative and viable** methods to deploy **low-cost attractive traps** for **adult vector mosquito species** are sought for use in **field monitoring traps** to gauge the population size and development state. The catch from these traps informs both the timing of vector control interventions and their efficacy post-application.

### Approaches of Interest

- A wide range of methods will be considered, with a particular interest in those that target synanthropic urban mosquitoes (i.e. species of *Aedes* mosquitoes)
- Feasible alternative to carbon dioxide
- Low servicing requirement, enabling deployment in areas of deprivation that are less secure and more at risk of vector-borne diseases
- Low cost
- Low electrical usage

### Technology Readiness Level

Opportunities at TRL2 through to TRL7 are within scope. Submitted approaches must include some degree of validation.

### Opportunity for Collaboration

Rentokil Initial are looking to engage with partners/collaborators from a **variety of scientific backgrounds** and with different areas of expertise to address this research challenge. The nature of funding and collaboration will be decided on a case-by-case basis.

### Submission Information

Submissions of one-page, non-confidential, 200-300 word briefs are encouraged. Submissions can include links to relevant publications or supporting material where appropriate.

#### Opportunities sought

-  Technologies
-  Academics and expertise
-  Research projects
-  Spinout companies

#### Submissions

Please submit relevant, non-confidential opportunities online via: [discover.in-part.com](https://discover.in-part.com)

Deadline: **1st June 2021 - 10:59 pm GMT**

#### Have any questions?

Contact our team at [discover@in-part.co.uk](mailto:discover@in-part.co.uk)

