



### RCloud Tasking Form – Part B: Statement of Requirement (SoR)

Title of Requirement	Synthetic Genetic Sensors for pharmacologically or physiologically active small molecules
Requisition No.	RQ000011769
SoR Version	0.1

1. 8	statement of Requirements
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### 1.1 Summary and Background Information

This requirement is to fund a provide in the area of genetic sensors for pharmacologically or physiologically active small molecules, or dietary components, exploring the *de novo* design and construction of circuits activated or controlled by such moieties.

Synthetic biology is a new and rapidly expanding field of research attracting multiple disciplines to address biological challenges or develop biologically enabled tools to meet broader challenges. Gateway innovations and developments present a step change in capability at both small and industrial scales that disrupt the status quo. Specific technology areas with potential to generate a step-change in chemical or biological hazard include genetic sensors and circuits.

An established method for building expertise (at both individual and institutional levels) is collaboration with external partners with appropriate programmes and capabilities. External are a recognised means to develop and maintain these collaborations.

In this partnership, the specific project will be agreed between the parties and advertised to potential students. The project will align with appropriate research objectives and work streams.

#### 1.2 Requirement

- A fully referenced literature review within 12 months of the start of the covering the area of genetic sensors (including artificial, designed or specifically evolved) for pharmacologically or physiologically active small molecules, or dietary components, exploring the de novo design and construction of circuits activated or controlled by such moieties.
- As part of the literature review the student will propose a Redacted Under FOI Exemption
  that will enable a deeper understanding to be developed within a specific area of genetic
  sensors (including artificial, designed or specifically evolved) for pharmacologically or



- physiologically active small molecules, or dietary components, exploring the de novo design and construction of circuits activated or controlled by such moieties.
- Once the proposal has been discussed and agreed with the Redacted Under FOI Exemption a more
  detailed project plan will be developed within 2 weeks and provided to plan will include but not be limited to a technical plan, risks, and outputs.
- Quarterly progress reports (by email) will be required on the progress of the technical approaches being undertaken, risks, issues, highlights and lowlights.
- 5. Annual progress presentation to the Redacted Under FOI Exemption
- 6. At the end of the the student will produce a thesis which will be fully referenced updating the literature review conducted during year 1.
- 7. The department and academic supervisor must have a proven track record in the area of genetic sensors (including artificial, designed or specifically evolved) for pharmacologically or physiologically active small molecules, or dietary components, exploring the de novo design and construction of circuits activated or controlled by such moieties covering computational biology, synthetic biology, de novo design of genetic circuits, rigorous metrology of genetic circuit mechanisms and outputs.
- 8. The academic supervisor must have a proven track record in successful supervision.
- Redacted Under FOI Exemption
- 10. All data generated by the contractor during the course of the research will be supplied to

  No data will be deleted without prior written permission from
- will be provided with an electronic copy of any published manuscripts.

#### Desirable:

The student will undertake a three month placement at to undertake Redacted Under FOI Exemption will provide laboratory space and consumables for this work.

#### Proposed Payment Plan

Redacted Under FOI Exemption	



	Additional Definitions  Additional Definitions  A consecutive twelve (12) Month period during the Term, commencing on the date that the Authority formally confirms approval of the student in writing
1.3	Options or follow on work (if none, write 'Not applicable')
	Not applicable
1.4	Contract Management Activities
	Redacted Under FOI Exemption to oversee the technical content of the work in conjunction with
	the academic Restacted Under FOI Exemption The Redacted Under FOI Exemption will be responsible for assuring the technical
	quality of the work and deliverables from a perspective and will confirm to the
	Manager that the deliverables are acceptable.
	The Redacted Under FOI Exemption will have regular (quarterly) progress updates from the contractor.
1.5	Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	Redacted Under FOI Exemption



1.6	Deliverables & Intellect	tual Property Ri	ghts (IPR)		
Ref.	Title	Due by	Format	Expected classification (subject to change)	What information is r deliverab
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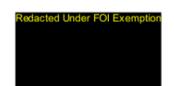
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### 1.7 Deliverable Acceptance Criteria

All outputs will be reviewed by the Redacted Under FOI Exemption to ensure that they are of the required technical quality. If upon review of the progress reports and/or the final does not accept the deliverables, the Contractor shall provide acceptable replacements at no additional cost to the Authority

2	Evaluat	ion Criteria			
2.1	Method	Explanation			
	Redacted	Under FOI Exemption			
2.2	Technic	al Evaluation Criteria			
	Confirm	ation that the proposal fully meets the Authority's	Statement of	Requiremen	it.
	Ref	Criteria	Available Score	Weighting	Total Available Score
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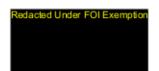


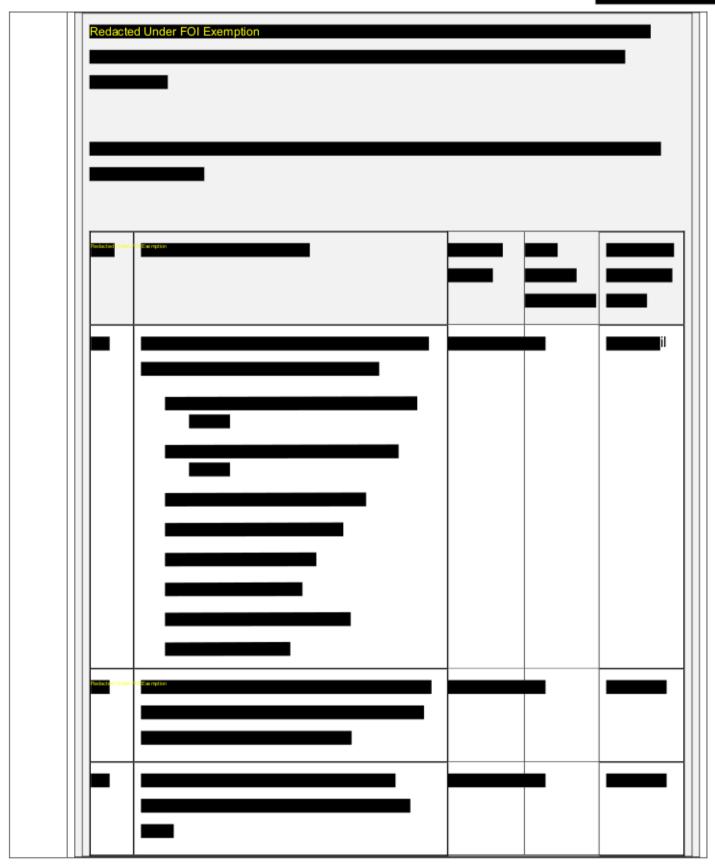
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