



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

Title of Requirement	Redacted Under FOI Exemption
Requisition No.	RQ000009664
SoR Version	0.1

1.	Statement of Requirements
1.1	Summary and Background Information
	Redacted Under FOI Exemption
	Redacted Under FOI Exemption
	Redacted Under FOI Exemption
1.2	Requirement
	Redacted Under FOI Exemption
	Recent education in machine learning techniques are side as a construit to address this about
	Recent advances in machine learning techniques provide an opportunity to address this challenge. In this project, we aim to do that by developing and demonstrating a new machine learning

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platform, to predict the conditions needed to optimise, stabilise and control particle and radiation generation in laser-solid interactions. The project will directly support complementary developments for the new Redacted Under FOI Exemption

Redacted Under FOI Exemption to the realisation of stable laser-plasma based sources for wide-ranging applications.

The studentship project aims to take major steps towards addressing the challenge to optimise, stabilise and control particle and radiation generation in laser-solid interactions via the development and application of a new machine-learning platform. The specific objectives are to:

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The student will begin by acquiring knowledge of laser-plasma interaction physics, numerical simulations, machine learning techniques and experimental implementation skills. The project will continue with the student investigating the optimisation of laser-driven radiation sources using a combination of machine learning techniques and particle in cell simulations. Identifying and testing the best approach to use will be part of the project. This will help inform the feasibility of enhanced control and optimisation for experimental demonstration. The machine learning approach will then be applied to a live experiment using the Redacted Under FOI Exemption, and if available, Possessed Under FOI Exemption

During the project, the student to contribute to be several experimental campaigns planned to be conducted at the Redacted Under FOI Exemption, on the optimisation of a high repetition rate laser-driven ion source. The student will take a key role in the planning and delivery of the experiment. Additionally, the student will participate in collaborative experiments with researchers at external research facilities, such as the Redacted Under FOI Exemption

Proposed Payment Plan

Progress payment 1: end of PhD Year 1 (date to be confirmed) = Progress payment 2: end of PhD Year 2 (date to be confirmed) = Progress payment 3: end of PhD Year 3 (date to be confirmed) = Progress payment 4: end of PhD Year 4 (date to be confirmed) = Progress payment 4: end of PhD Year 4 (date to be confirmed) = Progress payment 4: end of PhD Year 4 (date to be confirmed) = Progress PhD Year 4 (date to be confirmed) = Progress PhD Year 4 (date to be confirmed)

NOTE: Payment will be annually in arrears, and upon satisfactory completion of all deliverables at the end of each PhD Year.

Additional Definitions

"PHD Year" 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')
	N/A	





1.4	Contract Management Activities
	Quarterly Progress review Submission of Final Thesis
1.5	Health & Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	N/A



1.6	Deliverables & Intellectual Property Rights (IPR)				
Ref.	Title	Due by	Format	Expected classification (subject to change)	What information is r deliverab
100865 – 9664- Q1	Quarterly Progress and Technical Review	T0+3 Months	Presentation (.pptx)		Redacted Under FOI Exemption
100865 – 9664- Q2	Quarterly Progress and Technical Review	T0+6 Months	Presentation (.pptx)		Redacted Under FOI Exemption

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100865 -	Quarterly Progress and	T0+9 Months	Presentation	Foundation	Redacted Under FOI Exemption
9664- Q3	Technical Review		(.pptx)		
100865 –	Quarterly Progress and	T0+12	Report	Park:	Redacted Under FOI Exemption
9664- Q4	Technical Review	Months			
100865 –	Quarterly Progress and	T0+15	Presentation	Pound	Redacted Under FOI Exemption
9664-	Technical Review	Months	(.pptx)		
Q5					
100865 —	Quarterly Progress and	T0+18	Presentation	Redic	Redacted Under FOI Exemption
9664- Q6	Technical Review	Months	(.pptx)		

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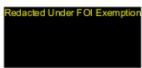


					Redacted Under FOI Exemption
100865 – 9664- Q7		T0+21 Months	Presentation (.pptx)		Redacted Under FOI Exemption
100865 – 9664- Q8		T0+24 Months	Report		Redacted Under FOI Exemption
100865 – 9664- Q9	Quarterly Progress and Technical Review	T0+27 Months	Presentation (.pptx)	Conditional Lines	Redacted Under FOI Exemption

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100865 –	Quarterly Progress	T0+30Month	Presentation	Post	Redacted Under FOI Exemption
9664-	and Technical Review	s	(.pptx)		
Q10					
100865 –	Quarterly Progress	T0+33	Presentation	Redic	Redacted Under FOI Exemption
9664-	and Technical Review	Months	(.pptx)		
Q11					
400005	Overterby Branco	T0+26	Domont		
100865 – 9664-	Quarterly Progress and Technical Review	T0+36 Months	Report	Foots	Redacted Under FOI Exemption
Q12	and reclinical Review	WOTTERS			
QIZ					

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100865 –	Quarterly Progress	T0+39	Presentation	Foots	Redacted Under FOI Exemption
9664-	and Technical Review	Months	(.pptx)		
Q13					
100865 -	Quarterly Progress	T0+42	Presentation	Reducted	Redacted Under FOI Exemption
					Redacted Under FOT Exemption
9664-	and Technical Review	Months	(.pptx)		
Q14					
100865 –	Quarterly Progress	T0+45	Presentation	Reduc	Redacted Under FOI Exemption
9664-	and Technical Review	Months	(.pptx)		
Q15					

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					Reducted Under FOI Exemption
100865 – 9664-	Quarterly Progress and Technical Review	T0+48 Months	Report	· ·	Redacted Under FOI Exemption
Q16	and recimical neview	Months			
400065	Access to any	T0+40	Online links		
100865 – 9664-	publications as a	T0+48 Months	Online links or electronic		Redacted Under FOI Exemption
Q16	result of the studentship research		copies		
	and thesis once completed				

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1.7	Deliverable Acceptance Criteria
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2	Evaluation Criteria	
2.1	Method Explanation	
	Evaluating this based on technical compliance and affordability.	
2.2	Technical Evaluation Criteria	
	Confirmation that the proposal fully meets the Authority's Statement of Requirement. Pass/Fail	
2.3	Commercial Evaluation Criteria	
	Tenderer has submitted a commercially compliant bid. Firm priced version submitted within budget of Labour rates and price as per single source rates uploaded to R Cloud Completion of Research Workers Form's Completion of Statement Relating to Good Standing Confirm acceptance of R Cloud Version 4 Terms and Conditions	Pass/Fail Pass/Fail Pass/Fail Pass/Fail Pass/Fail