

# Invitation to Quote



**Invitation to Quote (ITQ) on behalf of UK Research and Innovation –  
Medical Research Council**

**Subject: SEC-MALS System**

**Sourcing Reference Number: RE18378**



**UK Shared Business Services Ltd (UK SBS)**  
[www.uksbs.co.uk](http://www.uksbs.co.uk)

Registered in England and Wales as a limited company. Company Number 6330639.  
Registered Office Polaris House, North Star Avenue, Swindon, Wiltshire SN2 1FF  
VAT registration GB618 3673 25  
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Version 3.3

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# Section 1 – About UK Shared Business Services

## Putting the business into shared services

UK Shared Business Services Ltd (UK SBS) brings a commercial attitude to the public sector; helping our Contracting Authorities improve efficiency, generate savings and modernise.

It is our vision to become the leading service provider for the Contracting Authorities of shared business services in the UK public sector, continuously reducing cost and improving quality of business services for Government and the public sector.

Our broad range of expert services is shared by our Contracting Authorities. This allows Contracting Authorities the freedom to focus resources on core activities; innovating and transforming their own organisations.

Core services include Procurement, Finance, Grants Admissions, Human Resources, Payroll, ISS, and Property Asset Management all underpinned by our Service Delivery and Contact Centre teams.

UK SBS is a people rather than task focused business. It's what makes us different to the traditional transactional shared services centre. What is more, being a not-for-profit organisation owned by the Department for Business, Energy & Industrial Strategy (BEIS), UK SBS' goals are aligned with the public sector and delivering best value for the UK taxpayer.

UK Shared Business Services Ltd changed its name from RCUK Shared Services Centre Ltd in March 2013.

## Our Customers

Growing from a foundation of supporting the Research Councils, 2012/13 saw Business, Energy and Industrial Strategy (BEIS) transition their procurement to UK SBS and Crown Commercial Services (CCS – previously Government Procurement Service) agree a Memorandum of Understanding with UK SBS to deliver two major procurement categories (construction and research) across Government.

UK SBS currently manages £700m expenditure for its Contracting Authorities.

Our Contracting Authorities who have access to our services and Contracts are detailed [here](#).

## Section 2 – About the Contracting Authority

### UK Research and Innovation

Operating across the whole of the UK and with a combined budget of more than £6 billion, UK Research and Innovation represents the largest reform of the research and innovation funding landscape in the last 50 years.

As an independent non-departmental public body UK Research and Innovation brings together the seven Research Councils (AHRC, BBSRC, EPSRC, ESRC, MRC, NERC, STFC) plus Innovate UK and a new organisation, Research England.

UK Research and Innovation ensures the UK maintains its world-leading position in research and innovation. This is done by creating the best environment for research and innovation to flourish.

For more information, please visit: [www.ukri.org](http://www.ukri.org)

## Section 3 - Working with the Contracting Authority.

In this section you will find details of your Procurement contact point and the timescales relating to this opportunity.

Section 3 – Contact details		
3.1	Contracting Authority Name and address	UK Research and Innovation Polaris House Swindon SN2 1FL
3.2	Buyer name	James Mills
3.3	Buyer contact details	scientificresearch@uksbs.co.uk
3.4	Estimated value of the Opportunity	Approx. £167000 ex VAT
3.5	Process for the submission of clarifications and Bids	<b>All correspondence shall be submitted within the Emptoris e-sourcing tool. Guidance Notes to support the use of Emptoris is available <a href="#">here</a>. Please note submission of a Bid to any email address including the Buyer <u>will</u> result in the Bid <u>not</u> being considered.</b>

Section 3 - Timescales		
3.6	Date of Issue of Contract Advert and location of original Advert	Thursday 01 <sup>st</sup> November 2018  Contracts Finder
3.7	Latest date/time ITQ clarification questions shall be received through Emptoris messaging system	Wednesday 14 <sup>th</sup> August 2018  11.00
3.8	Latest date/time ITQ clarification answers should be sent to all Bidders by the Buyer through Emptoris	Thursday 15 <sup>th</sup> November 2018  16.00
3.9	Latest date/time ITQ Bid shall be submitted through Emptoris	Monday 19 <sup>th</sup> November 2018  14:00
3.10	Anticipated Award date	Wednesday 28 <sup>th</sup> November 2018
3.11	Anticipated Contract Start date	Friday 30 <sup>th</sup> November 2018
3.12	Bid Validity Period	60 Days

## Section 4 – Specification

### SEC-MALS System

The MRC Laboratory of Molecular Biology uses size exclusion chromatography (SEC) coupled to multi angle light scattering (MALS) as part of its protein purification, protein characterization, quality control and particle mass / size quantitation, all of which are integral to the laboratory's main research themes in structural biology.

### Technical Criteria

#### As a minimum -

The SEC-MALS instrumentation must be able to determine particle size and mass over a wide dynamic range from small peptides and nucleic acid fragments up to large mass protein complexes, detergent vesicles or virus like particles.

All light scattering and concentration detectors must work in a flow mode with all instruments / measurements coupled downstream of a conventional SEC chromatography system and maintaining as small as possible additional detector and tubing volumes to avoid 'peak broadening' and signal alignment issues.

Mass will be determined using the intensity of scattered light from a number (>10) of detectors arrayed at different angles (40-140°) to the incident light beam. The particle size (radius of gyration;  $R_g$ ) will be determined where possible from the angular dependence of this scattered intensity.

Particle size from translational diffusion measurements (hydrodynamic radius;  $R_h$ ) will be determined from analysis of intensity fluctuations of the scattered light (dynamic light scattering; DLS) using a dedicated on line scattering detector angle in the main MALS instrument. Combining measurements in one measurement cell / instrument avoids band broadening issues noted above and also gives measurement of DLS on the exact sample that is being interrogated for mass determination.

Mass determination also requires accurate concentration measurement and this will be obtained using refractive index (RI) detection in a separate on-line (flow) detector unit. Sensitivity must exceed  $\pm 5 \times 10^{-9}$  RIU but with a wide dynamic range to allow measurement of highly concentrated samples  $\pm 3 \times 10^{-3}$  RIU.

As well as the general overview of the instrumentation the following points must also be the minimum requirements of the measurement platform;

- The wavelength of light used for MALS and RI must be > 600nm to avoid absorbance issues with fluorescent (eg GFP) tagged proteins.
- The wavelength of light used must be the same in both detectors for maximum accuracy of mass determination
- The temperature of measurement must be controllable in both instruments (4-40°C) and be maintained to high levels of stability especially in the refractive index detector ( $\pm 0.01^\circ\text{C}$ ).
- The MALS instrument must have a zero angle transmission detector (forward monitor) for diagnostic purposes (e.g. detecting highly absorbing samples)
- The MALS instrument must have a light intensity monitoring system that allows correction for small fluctuations in the illumination intensity of the light source and provision of this signal for diagnostic purposes and for normalisation of the collected data. This should monitor illumination light before it is incident on the measurement cell.

- In both MALS and RI measurement the flow path and optical cells must be resistant to conventional cleaning solutions (e.g. detergents, methanol, acid (0.1M HNO<sub>3</sub> etc) and protein denaturants such as urea and guanidinium hydrochloride) and provision of additional cell cleaning strategies such as built in ultrasonic devices would be useful. All of these cleaning methods must be accessible with the measurement cell in situ in normal measuring mode and without any disassembly of the unit.
- In both MALS and RI measurement the flow path and optical cells must tolerate conventional biological buffers (0-2M salts, low levels of detergent, glycerol, standard reductants such as DTT and TCEP etc) and work at typical flow rates used in SEC (0.1-1.5 mL/min solvent flow rate)

#### Terms and Conditions

Bidders are to note that any requested modifications to the Contracting Authority Terms and Conditions on the grounds of statutory and legal matters only, shall be raised as a formal clarification during the permitted clarification period.

<b>Installation</b>	To be Installed by Vendor at:  MRC – Laboratory of Molecular Biology Cambridge Biomedical Campus Francis Crock Avenue Cambridge CB2 0QH
<b>User Training On Site</b>	Provide general level user training on the equipment during installation of the equipment. This can be provided by the installer if appropriate.
<b>Service Maintenance and Support</b>	Must provide in country support for maintenance and be able to respond to equipment failure within 24 -48 hours
<b>User and Service Manuals</b>	These must be provided upon installation and be in English language in either hard or soft copy.
<b>Service Spare Parts</b>	Recommended start up kits or Service Spare parts must be provided
<b>Relevant Standards</b>	All devices listed must meet relevant British/European or equivalent standards. Documentation providing proof of compliance should be provided
<b>Delivery</b>	Equipment and Accessories will be delivered to:  MRC – Laboratory of Molecular Biology Cambridge Biomedical Campus Francis Crock Avenue Cambridge CB2 0QH

	Final delivery date accepted: 31/03/2019
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## Section 5 – Evaluation model

The evaluation model below shall be used for this ITQ, which will be determined to two decimal places.

Where a question is 'for information only' it will not be scored.

The evaluation team may comprise staff from UK SBS and the Contracting Authority and any specific external stakeholders the Contracting Authority deems required. After evaluation the scores will be finalised by performing a calculation to identify (at question level) the mean average of all evaluators (Example – a question is scored by three evaluators and judged as scoring 5, 5 and 6. These scores will be added together and divided by the number of evaluators to produce the final score of 5.33 ( $5+5+6=16 \div 3 = 5.33$ ))

Pass / fail criteria		
Questionnaire	Q No.	Question subject
Commercial	SEL1.2	Employment breaches/ Equality
Commercial	SEL3.11	Compliance to Section 54 of the Modern Slavery Act
Commercial	FOI1.1	Freedom of Information Exemptions
Commercial	AW1.1	Form of Bid
Commercial	AW1.3	Certificate of Bona Fide Bid
Commercial	AW3.1	Validation check
Commercial	AW4.1	Contract Terms Part 1
Commercial	AW4.2	Contract Terms Part 2
Quality	AW6.1	Compliance to the Specification
Price	AW6.2	Variable Bids
-	-	Invitation to Quote – received on time within e-sourcing tool

Scoring criteria			
<b>Evaluation Justification Statement</b>  In consideration of this particular requirement the Contracting Authority has decided to evaluate Potential Providers by adopting the weightings/scoring mechanism detailed within this ITQ. The Contracting Authority considers these weightings to be in line with existing best practice for a requirement of this type.			
Questionnaire	Q No.	Question subject	Maximum Marks
Price	AW5.2	Price	40%
Quality	PROJ1.2	Particle Size And Mass Measurements	20%
Quality	PROJ1.3	Hydrodynamic Radius Determination	20%

Quality	PROJ1.4	(RI) Measurements	20%
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## Evaluation of criteria

### Non-Price elements

Each question will be judged on a score from 0 to 100, which shall be subjected to a multiplier to reflect the percentage of the evaluation criteria allocated to that question.

Where an evaluation criterion is worth 20% then the 0-100 score achieved will be multiplied by 20%.

Example if a Bidder scores 60 from the available 100 points this will equate to 12% by using the following calculation:

$$\text{Score} = \{\text{weighting percentage}\} \times \{\text{bidder's score}\} = 20\% \times 60 = 12$$

The same logic will be applied to groups of questions which equate to a single evaluation criterion.

The 0-100 score shall be based on (unless otherwise stated within the question):

0	The Question is not answered or the response is completely unacceptable.
10	Extremely poor response – they have completely missed the point of the question
20	Very poor response and not wholly acceptable. Requires major revision to the response to make it acceptable. Only partially answers the requirement, with major deficiencies and little relevant detail proposed. Information is lacking or shows major deficiencies in scope and quality.
40	Poor response that only partially demonstrates meeting the specification. Some useful evidence provided but response falls well short of expectations with deficiencies in the amount of information provided and quality of the data. Low probability that equipment will meet the current LMB experimental requirement or will cause significant impact.
60	Acceptable response but remains basic and could be expanded upon. Evidence provided is adequate and shows basic acceptably, technically mature technology. The information provides an acceptable probability that equipment will meet the current LMB experimental requirement.
80	Good response that clearly demonstrates they are capable of easily meeting the specification, no significant weaknesses noted and technically advanced. Evidence provided is compelling and in-depth with no weakness or omissions and stands up to scrutiny with quality data. The information provides a high probability that equipment will easily meet the current LMB experimental requirement.
100	Response is exceptional and clearly demonstrates they are capable of exceeding the specification, no significant weaknesses noted and technically innovative. Evidence provided is significantly compelling and in-depth with no weakness or omissions and stands up to scrutiny with quality data. The information provided indicates that equipment significantly exceeds the current LMB experimental requirement

All questions will be scored based on the above mechanism. Please be aware that the final score returned may be different as there may be multiple evaluators and their individual scores will be averaged (mean) to determine your final score.

### Example

Evaluator 1 scored your bid as 60  
Evaluator 2 scored your bid as 60  
Evaluator 3 scored your bid as 40  
Evaluator 4 scored your bid as 40  
Your final score will  $(60+60+40+40) \div 4 = 50$

**Price elements** will be judged on the following criteria.

The lowest price for a response which meets the pass criteria shall score 100.  
All other bids shall be scored on a pro rata basis in relation to the lowest price. The score is then subject to a multiplier to reflect the percentage value of the price criterion.

For example - Bid 1 £100,000 scores 100.

Bid 2 £120,000 differential of £20,000 or 20% remove 20% from price scores 80

Bid 3 £150,000 differential £50,000 remove 50% from price scores 50.

Bid 4 £175,000 differential £75,000 remove 75% from price scores 25.

Bid 5 £200,000 differential £100,000 remove 100% from price scores 0.

Bid 6 £300,000 differential £200,000 remove 100% from price scores 0.

Where the scoring criterion is worth 50% then the 0-100 score achieved will be multiplied by 50.

In the example if a supplier scores 80 from the available 100 points this will equate to 40% by using the following calculation:  $\text{Score/Total Points} \times 50$  ( $80/100 \times 50 = 40$ )

The lowest score possible is 0 even if the price submitted is more than 100% greater than the lowest price.

## **Section 6 – Evaluation questionnaire**

Bidders should note that the evaluation questionnaire is located within the **e-sourcing questionnaire**.

Guidance on completion of the questionnaire is available at <http://www.uksbs.co.uk/services/procure/Pages/supplier.aspx>

**PLEASE NOTE THE QUESTIONS ARE NOT NUMBERED SEQUENTIALLY**

## Section 7 – General Information

### What makes a good bid – some simple do's 😊

#### DO:

- 7.1 Do comply with Procurement document instructions. Failure to do so may lead to disqualification.
- 7.2 Do provide the Bid on time, and in the required format. Remember that the date/time given for a response is the last date that it can be accepted; we are legally bound to disqualify late submissions. Responses received after the date indicated in the ITQ shall not be considered by the Contracting Authority, unless the Bidder can justify that the reason for the delay, is solely attributable to the Contracting Authority
- 7.3 Do ensure you have read all the training materials to utilise e-sourcing tool prior to responding to this Bid. If you send your Bid by email or post it will be rejected.
- 7.4 Do use Microsoft Word, PowerPoint Excel 97-03 or compatible formats, or PDF unless agreed in writing by the Buyer. If you use another file format without our written permission we may reject your Bid.
- 7.5 Do ensure you utilise the Emptoris messaging system to raise any clarifications to our ITQ. You should note that we will release the answer to the question to all Bidders and where we suspect the question contains confidential information we may modify the content of the question to protect the anonymity of the Bidder or their proposed solution
- 7.6 Do answer the question, it is not enough simply to cross-reference to a 'policy', web page or another part of your Bid, the evaluation team have limited time to assess bids and if they can't find the answer, they can't score it.
- 7.7 Do consider who the Contracting Authority is and what they want – a generic answer does not necessarily meet every Contracting Authority's needs.
- 7.8 Do reference your documents correctly, specifically where supporting documentation is requested e.g. referencing the question/s they apply to.
- 7.9 Do provide clear, concise and ideally generic contact details; telephone numbers, e-mails and fax details.
- 7.10 Do complete all questions in the questionnaire or we may reject your Bid.
- 7.11 Do ensure that the Response and any documents accompanying it are in the English Language, the Contracting Authority reserve the right to disqualify any full or part responses that are not in English.
- 7.12 Do check and recheck your Bid before dispatch.

## What makes a good bid – some simple do not's Ⓜ

### DO NOT

- 7.13 Do not cut and paste from a previous document and forget to change the previous details such as the previous buyer's name.
- 7.14 Do not attach 'glossy' brochures that have not been requested, they will not be read unless we have asked for them. Only send what has been requested and only send supplementary information if we have offered the opportunity so to do.
- 7.15 Do not share the Procurement documents, they are confidential and should not be shared with anyone without the Buyers written permission.
- 7.16 Do not seek to influence the procurement process by requesting meetings or contacting UK SBS or the Contracting Authority to discuss your Bid. If your Bid requires clarification the Buyer will contact you. All information secured outside of formal Buyer communications shall have no Legal standing or worth and should not be relied upon.
- 7.17 Do not contact any UK SBS staff or the Contracting Authority staff without the Buyers written permission or we may reject your Bid.
- 7.18 Do not collude to fix or adjust the price or withdraw your Bid with another Party as we will reject your Bid.
- 7.19 Do not offer UK SBS or the Contracting Authority staff any inducement or we will reject your Bid.
- 7.20 Do not seek changes to the Bid after responses have been submitted and the deadline for Bids to be submitted has passed.
- 7.21 Do not cross reference answers to external websites or other parts of your Bid, the cross references and website links will not be considered.
- 7.22 Do not exceed word counts, the additional words will not be considered.
- 7.23 Do not make your Bid conditional on acceptance of your own Terms of Contract, as your Bid will be rejected.
- 7.24 Do not unless explicitly requested by the Contracting Authority either in the procurement documents or via a formal clarification from the Contracting Authority send your response by any way other than via e-sourcing tool. Responses received by any other method than requested will not be considered for the opportunity.

## Some additional guidance notes

- 7.25 All enquiries with respect to access to the e-sourcing tool and problems with functionality within the tool must be submitted to Crown Commercial Service (previously Government Procurement Service), Telephone 0345 010 3503.
- 7.26 Bidders will be specifically advised where attachments are permissible to support a question response within the e-sourcing tool. Where they are not permissible any attachments submitted will not be considered as part of the evaluation process.
- 7.27 Question numbering is not sequential and all questions which require submission are included in the Section 6 Evaluation Questionnaire.
- 7.28 Any Contract offered may not guarantee any volume of work or any exclusivity of supply.
- 7.29 We do not guarantee to award any Contract as a result of this procurement
- 7.30 All documents issued or received in relation to this procurement shall be the property of the Contracting Authority. / UKSBS.
- 7.31 We can amend any part of the procurement documents at any time prior to the latest date / time Bids shall be submitted through Emptoris.
- 7.32 If you are a Consortium you must provide details of the Consortiums structure.
- 7.33 Bidders will be expected to comply with the Freedom of Information Act 2000 or your Bid will be rejected.
- 7.34 Bidders should note the Government's transparency agenda requires your Bid and any Contract entered into to be published on a designated, publicly searchable web site. By submitting a response to this ITQ Bidders are agreeing that their Bid and Contract may be made public
- 7.35 Your bid will be valid for 60 days or your Bid will be rejected.
- 7.36 Bidders may only amend the contract terms during the clarification period only, only if you can demonstrate there is a legal or statutory reason why you cannot accept them. If you request changes to the Contract terms without such grounds and the Contracting Authority fail to accept your legal or statutory reason is reasonably justified we may reject your Bid.
- 7.37 We will let you know the outcome of your Bid evaluation and where requested will provide a written debrief of the relative strengths and weaknesses of your Bid.
- 7.38 If you fail mandatory pass / fail criteria we will reject your Bid.
- 7.39 Bidders are required to use IE8, IE9, Chrome or Firefox in order to access the functionality of the Emptoris e-sourcing tool.
- 7.40 Bidders should note that if they are successful with their proposal the Contracting Authority reserves the right to ask additional compliancy checks prior to the award of any Contract. In the event of a Bidder failing to meet one of the compliancy checks

the Contracting Authority may decline to proceed with the award of the Contract to the successful Bidder.

7.41 All timescales are set using a 24 hour clock and are based on British Summer Time or Greenwich Mean Time, depending on which applies at the point when Date and Time Bids shall be submitted through Emptoris.

7.42 All Central Government Departments and their Executive Agencies and Non Departmental Public Bodies are subject to control and reporting within Government. In particular, they report to the Cabinet Office and HM Treasury for all expenditure. Further, the Cabinet Office has a cross-Government role delivering overall Government policy on public procurement - including ensuring value for money and related aspects of good procurement practice.

For these purposes, the Contracting Authority may disclose within Government any of the Bidders documentation/information (including any that the Bidder considers to be confidential and/or commercially sensitive such as specific bid information) submitted by the Bidder to the Contracting Authority during this Procurement. The information will not be disclosed outside Government. Bidders taking part in this ITQ consent to these terms as part of the competition process.

7.43 The Government introduced its new Government Security Classifications (GSC) classification scheme on the 2<sup>nd</sup> April 2014 to replace the current Government Protective Marking System (GPMS). A key aspect of this is the reduction in the number of security classifications used. All Bidders are encouraged to make themselves aware of the changes and identify any potential impacts in their Bid, as the protective marking and applicable protection of any material passed to, or generated by, you during the procurement process or pursuant to any Contract awarded to you as a result of this tender process will be subject to the new GSC. The link below to the Gov.uk website provides information on the new GSC:

<https://www.gov.uk/government/publications/government-security-classifications>

The Contracting Authority reserves the right to amend any security related term or condition of the draft contract accompanying this ITQ to reflect any changes introduced by the GSC. In particular where this ITQ is accompanied by any instructions on safeguarding classified information (e.g. a Security Aspects Letter) as a result of any changes stemming from the new GSC, whether in respect of the applicable protective marking scheme, specific protective markings given, the aspects to which any protective marking applies or otherwise. This may relate to the instructions on safeguarding classified information (e.g. a Security Aspects Letter) as they apply to the procurement as they apply to the procurement process and/or any contracts awarded to you as a result of the procurement process.

## **USEFUL INFORMATION LINKS**

- [Emptoris Training Guide](#)
- [Emptoris e-sourcing tool](#)
- [Contracts Finder](#)
- [Equalities Act introduction](#)
- [Bribery Act introduction](#)
- [Freedom of information Act](#)