

**Tender – Rapid Procurement Process for Small and Medium Scale Requirements**

Research Grade Cycle Ergometer

The University of Chichester

**Latest date for Return –23rd May 2022**

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1. Introduction and general background
   1. Purpose of this tender document

The purpose of this tender is to enable suppliers to demonstrate expertise and compliance with the University’s requirements, and to enable the University to assess the most economically advantageous solutions to its requirements, using the prescribed tendering methodology for requirements of this size and nature.

For this requirement we are obliged to by the Public Contacts Act (2015) and by our own financial regulations to undertake a competitive process. In order to enable an assessment of the best value for the University, we are undertaking the rapid tender process. The rapid process enables us to consider the value proposition, and based on this to short-list providers. Only for those who are short-listed, is the further due diligence of the competitive process undertaken.

* 1. Background to this tender

The University of Chichester conducts cycle-ergometer based assessments as part of its teaching, research and sports science support in the sport and exercise and clinical sciences.

In particular research and specific cycle-based sports sciences support requires a research-grade cycle ergometers that are electronically controlled, capable of measuring to high power outputs to a high level of accuracy, and can be interfaced with other measurements devices (e.g. heart rate measurements systems and metabolic analysers etc.). The research grade ergometers currently held by the University of Chichester are over 15 years old and have become unreliable and are no longer supported by the manufacturers, therefore the University’s is seeking a replacement device.

* 1. High level requirements

The requirement is for an electronically controlled research grade configurable cycle ergometer for which the outline specifications are shown in the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Specification** | **Requirement Minimum** | **Response Tenderer** | **Included in base price or additional** |
| **Workload** | | | |
| Minimum load | 30 W |  |  |
| Maximum peak load | 3000 W |  |  |
| Isokinetic workload control |  |  |  |
| Minimum load increments | 1 W |  |  |
| Hyperbolic workload control |  |  |  |
| Linear workload control |  |  |  |
| Fixed torque workload control |  |  |  |
| Maximum rpm independent constant load | 180 rpm |  |  |
| Minimum rpm independent constant load | 30 rpm |  |  |
| Electromagnetic "eddy current" braking system |  |  |  |
| **Accuracy** | | | |
| Workload accuracy below 100 W | 2 W |  |  |
| Workload accuracy from 100 to 1500 W | 2 % |  |  |
| Workload accuracy 1500 - 3000 W | 5 % |  |  |
| **Fit** | | | |
| **Fixed crank length** | 170mm |  |  |
| Minimum leg length user | 737 mm |  |  |
| Maximum leg length user | 1128 mm |  |  |
| **Adjustable cranks** | State range |  |  |
| Minimum leg length user (incl. adjustable Cranks) | 662 mm |  |  |
| Max. leg length user (incl. adjustable cranks) | 1143 mm |  |  |
| Vertical seat adjustment maximum | 938 mm |  |  |
| Vertical seat adjustment minimum | 550 mm |  |  |
| Horizontal seat adjustment minimum | 72 mm |  |  |
| Horizontal seat adjustment maximum | 324 mm |  |  |
| Allowed user weight | 225 kg |  |  |
| Horizontal handlebar adjustment minimum | 229 mm |  |  |
| Horizontal handlebar adjustment maximum | 600 mm |  |  |
| Vertical handlebar adjustment minimum | 465 mm |  |  |
| Vertical handlebar adjustment maximum |  |  |  |
| **User Interface** | | | |
| English |  |  |  |
| Terminal Operation mode |  |  |  |
| Touch screen |  |  |  |
| Screen Size (diagonal) |  |  |  |
| **Connectivity** | | | |
| Interface Protocols | Supply details of devices the ergometer can interface with and control |  |  |
| USB connector |  |  |  |
| HDMI |  |  |  |
| RS232 out connector |  |  |  |
| Support for external display | Screen Size (diagonal) and number |  |  |
| **Power** | | | |
| Voltage AC | 100 - 240 V |  |  |
| Phases | 1 |  |  |
| Power cord length | 250 cm |  |  |
| **Standards & Safety** | | | |
| IEC 60601-1:2012 |  |  |  |
| ISO 13485:2016 compliant |  |  |  |
| ISO 9001:2015 compliant |  |  |  |
| CE class Im according to MDR 2017/745 |  |  |  |
| Compliant to MDR 2017/745 |  |  |  |
| **Environmental** | | | |
| Minimum operational temperature | 10°C |  |  |
| Maximum operational temperature | 40°C |  |  |
| Minimum operational non-condensing humidity | 30 % |  |  |
| Maximum operational non-condensing humidity | 90 % |  |  |
| **Data management** | | | |
| File exports facility | Excel compatibility |  |  |
| Supported operating systems | Windows/Mac OS |  |  |
|  |  |  |  |
| **Additional components** | | | |
| Wingate/sprint test software |  |  |  |
| Arterial Oxygenation measurements (SpO2) |  |  |  |
| Blood pressure |  |  |  |
| Pedalling torque analysis |  |  |  |
| On-site installation |  |  |  |
| Training |  |  |  |
| Calibration requirements |  |  |  |
| Servicing requirements |  |  |  |

* 1. The bidding process

We are obliged by the Public Contacts Act (2015) and by our own financial regulations to undertake a competitive process. In this case the perceived value of the tender, process requires us to obtain 3 quotations. To help us assess quotations we have added a questionnaire, and ask that you complete this to help us understand the value your company can achieve.

Submission should be made by email to [tenders@chi.ac.uk](mailto:tenders@chi.ac.uk) The closing date for submission is 23/05/2022

* 1. Seeking clarification

For all queries please contact us by email [tenders@chi.ac.uk](mailto:tenders@chi.ac.uk). Please note that during the tender period you should not contact University staff directly, as this might be considered canvassing. Please note that dependent upon the nature of the enquiry, and in so much as it does not identify your organisation, the answers to any questions you raise may be published on the procurement web pages <https://help.chi.ac.uk/tenders>

* 1. Procurement timetable

The procurement project is working to the following timescale:

|  |  |
| --- | --- |
| Stage | Key Dates |
| Publication of Tender Notice | 11/05/2022 |
| Closing Date for submission of Standard Selection Questionnaire | 1700 on 23/05/2022 |
| Clarifications | W/C 16/05/2022 |
| Award | 27//05/2022 |

* 1. The assessment process

The University awards contracts on the basis of most economically advantageous tender, (quote) assuming that there is nothing that excludes the tenderer. All documents submitted are assessed by a panel to ensure fairness and understanding. The panel reviews the quotation for;

|  |  |
| --- | --- |
| Criteria | Weighting |
| Coherence and clarity to the University’s requirement | 30% |
| Organisational experience and capability | 10% |
| Costs | 30% |
| Compliance with the Social Value Model | 20% |
| Added value | 10% |
| Exclusion grounds \*see ([link](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/558520/PPN_8_16_StandardSQ_Template_v3.pdf)) | Pass / Fail |

* 1. Confidentiality and Freedom of Information

All tendering documentation and correspondence are treated as strictly confidential. However, the University is subject to UK Data Protection Legislation, and the Freedom of Information Act 2000. This means that the University can be asked to disclose procurement and contracting information. Please indicate any areas of your submission that you consider should be exempted from any disclosure requests and identify why they should not be disclosed.

* 1. The template for your bid/quote

We have set out a template below, and ask that you use this to help us understand your bid, in a way that allows us to compare its benefits against others. This anticipates question we / you may have.

You are welcome to submit other information, but please do help us by identifying what you can do, in relation to our requirements, and do please answer the questions below where it is possible to do so.

There is no limit to word count here, but please bear in mind the need for clarity etc

|  |  |
| --- | --- |
| 1 | Please describe your typical services with associated installation costs |
| There is no limit to word count here, but please bear in mind the need for clarity etc | |

|  |  |
| --- | --- |
| 2 | Please describe the installation itself – with options  It will be helpful if you can supply photographs of similar installations you have been involved in. |
|  | |

|  |  |
| --- | --- |
| 3 | Please describe any government grants that may be possible, how these are accessed, and any conditions (and any how long any such conditions might stay in force for. |
|  | |

|  |  |
| --- | --- |
| 4 | Please describe annual maintenance and licensing costs, ideally with warranty and call-out arrangements should an error occur |
|  | |

|  |  |
| --- | --- |
| 5 | Please describe the operation of the service from a service user’s point of view, |
|  | |

|  |  |
| --- | --- |
| 6 | Please note any additional facility |
|  | |

|  |  |
| --- | --- |
| 7 | Please describe the operation of the service from and administrators’ point of view ( |
|  | |

|  |  |
| --- | --- |
| 8 | Please describe the reporting that is available. Ideally this will enable analytics on utilisation by time/day/week/month/year, and ideally longitudinal analysis to assess trends seasonality etc |
|  | |

|  |  |
| --- | --- |
| 9 | Please tell us something about you and your organisation, for example in relation to the social value model |
|  | |

* 1. The techncial requirements

To comply with the Public Contracts Act 2015 and our own financial regulations, before it makes any final decisions, the University is required to ensure that any supplier meets a number of key characteristics. As well as ensuring suitability and value these include areas, such as how you comply and support the Modern Slavery Act and the various aspects of the Social Value Model.

Please note that during the contacting phase of this procurement, we will ask questions about;

* The status and formation of your company
* The ownership of your company, and any exclusion grounds (for example convictions)
* Any sub-contractors that you might use
* Economic and financial standing
* Technical and professional ability (potentially to access references of relevant existing customers)
* Compliance with statutory obligations (Modern Slavery Act)
* Liabilities Insurance

How your company supports the Social Value Model (including recovering from Covid 19, tackling inequality, fighting climate change, equal opportunity and wellbeing). Principles of the SVM are described at **Appendix 1**

Appendix 1: Social Value Model: Model Award Criteria

|  |  |  |
| --- | --- | --- |
| SVM Theme | SVM Policy Outcome | SVM Model Award Criteria |
| COVID-19 Recovery | Help local communities to manage and recover from the impact of COVID-19 | Effective measures to deliver any/all of the following benefits through the contract:   * Creation of employment, re-training and other return to work opportunities for those left unemployed by COVID-19, particularly new opportunities in high growth sectors. * Support for people and communities to manage and recover from the impacts of COVID-19, including those worst affected or who are shielding. * Support for organisations and businesses to manage and recover from the impacts of COVID-19, including where new ways of working are needed to deliver services. * Support for the physical and mental health of people affected by COVID-19, including reducing the demand on health and care services. * Improvements to workplace conditions that support the COVID-19 recovery effort including effective social distancing, remote working, and sustainable travel solutions. |
| Tackling economic inequality | Create new businesses, new jobs and new skills[[1]](#footnote-2) | Effective measures to deliver any/all of the following benefits through the contract:   * Create opportunities for entrepreneurship and help new organisations to grow, supporting economic growth and business creation. * Create employment and training opportunities particularly for those who face barriers to employment and/or who are located in deprived areas, and for people in industries with known skills shortages or in high growth sectors. * Support educational attainment relevant to the contract, including training schemes that address skills gaps and result in recognised qualifications. |
| Increase supply chain resilience and capacity | Effective measures to deliver any/all of the following benefits through the contract:   * Create a diverse supply chain to deliver the contract including new businesses and entrepreneurs, start-ups, SMEs, VCSEs and mutuals. * Support innovation and disruptive technologies throughout the supply chain to deliver lower cost and/or higher quality goods and services. * Support the development of scalable and future-proofed new methods to modernise delivery and increase productivity. * Demonstrate collaboration throughout the supply chain, and a fair and responsible approach to working with supply chain partners in delivery of the contract. * Demonstrate action to identify and manage cyber security risks in the delivery of the contract including in the supply chain |
| Fighting Climate Change | Effective stewardship of the environment | Effective measures to deliver any/all of the following benefits through the contract:   * Deliver additional environmental benefits in the performance of the contract including working towards net zero greenhouse gas emissions. * Influence staff, suppliers, customers and communities through the delivery of the contract to support environmental protection and improvement. |
| Equal opportunity | Reduce the disability employment gap | Effective measures to deliver any/all of the following benefits through the contract:   * Demonstrate action to increase the representation of disabled people in the contract workforce. * Support disabled people in developing new skills relevant to the contract, including through training schemes that result in recognised qualifications. |
| Tackle workforce inequality | Effective measures to deliver any/all of the following benefits through the contract:   * Demonstrate action to identify and tackle inequality in employment, skills and pay in the contract workforce. * Support in-work progression to help people, including those from disadvantaged or minority groups, to move into higher paid work by developing new skills relevant to the contract. * Demonstrate action to identify and manage the risks of modern slavery in the delivery of the contract, including in the supply chain. |
| Wellbeing | Improve health and wellbeing | Effective measures to deliver any/all of the following benefits through the contract:   * Demonstrate action to support health and wellbeing, including physical and mental health, in the contract workforce. * Influence staff, suppliers, customers and communities through the delivery of the contract to support health and wellbeing, including physical and mental health. |
| Improve community integration | Effective measures to deliver any/all of the following benefits through the contract:   * Demonstrate collaboration with users and communities in the co-design and delivery of the contract to support strong integrated communities. * Influence staff, suppliers, customers and communities through the delivery of the contract to support strong, integrated communities. |

1. The University will welcome the opportunity to develop degree apprenticeships, internships and placements, Continuous Professional Development, as well as collaborative programmes and career pathways with suppliers. [↑](#footnote-ref-2)