

## Eventum Orthopaedics Ltd High Impact Project Advert

<b>Company Name</b>	Eventum Orthopaedics Limited
<b>Company Address</b>	89 Bolling Road, Ilkley, West Yorkshire, United Kingdom, LS29 8QH
<b>Company Contact</b>	Mr John Naybour
<b>Description of Company Activity</b>	Eventum Orthopaedics Ltd is a MedTech company developing innovative products to support Orthopaedic surgeons
<b>Objective of the proposed project (Please explain what is required in the project) (max 250 words)</b>	<p>Eventum Orthopaedics are a MedTech start-up business based in the Leeds City region. The company is led by a highly experienced team in the Global Med tech space.</p> <p>We are looking for a talented technology partner to assist on a short-term project. The potential candidate will have experience of designing systems that handle sensitive personal medical information. We are looking for an organisation that aligns with our cultural values, has a focus on employee engagement and feedback, and can provide a record of corporate social responsibility and sustainability.</p> <p>The project is one of the key deliverables of our first innovative solution, which has been designed to help improve patient outcomes after Total Knee Replacement (TKR) surgery. The project has two key elements</p> <ol style="list-style-type: none"> <li>1. A secure web portal for the management of confidential medical information that will be used by Healthcare Professionals and the Company and will be built to comply with all the differing regulatory requirements of the target launch markets in New Zealand, UK, Australia, and the US.</li> <li>2. An IOS application which will securely manage medical/health data. The IOS application will communicate with existing Eventum's data platform. The data received will initially be sent from two locations - the iPhone health app and an Eventum sensor product via Bluetooth, which will be attached to the patient post operatively for a period of approximately 2-3 weeks.</li> </ol> <p>The development of the IOS application will form a key part of Eventum Orthopaedics' future portfolio pipeline and will</p>

	enable further integration of both in-house and 3 <sup>rd</sup> part patient monitoring technologies.
<p><b>Tenders are Invited from suppliers who can provide the necessary skills and expertise to deliver the specification</b></p> <p><b>Successful applicants should be aware that this project is part-funded by the England European Regional Development Fund as part of the European Structural and Investment Funds Growth Programme 2014-2020 and the Local Growth Fund.</b></p> <p><b>Successful applicants should be aware that award of the contract is reliant on the successful issue of a grant funding agreement following the close of the tender process.</b></p>	<p><b>Assumptions</b></p> <p>The web application/portal must support multiple organisational units (e.g., Hospitals within a Single Trust). There are only 3 access roles to be created: administrator, surgeon &amp; standard user.</p> <ol style="list-style-type: none"> <li>1. Administrators and standard users can only belong to a single organisational unit.</li> <li>2. A surgeon can be registered to multiple organisational units.</li> </ol> <p>The Supplier will be provided with the website Terms and Conditions.</p> <p>The mobile application will initially target iOS 14 only, but will hopefully be compatible with v15 and does not include iPad,iOS 14 has the largest user base (see statistics <a href="#">here</a>). The mobile application is only intended to capture data provided by a Bluetooth connection. The Bluetooth-enabled device will allow for pairing to an iPhone device without 2-way authentication (as the device won't allow for user input)</p> <p>The mobile application will be published via TestFlight (not the App Store). Data from the mobile device sent back to the Data Platform will be stored in a way that allows for it to be exposed via the Web Application and Analytical Tool</p> <p><b>Dependencies</b></p> <p>Both the web and mobile applications will be built upon the existing cloud-based data platform built on AWS</p> <p><b>Overview</b> The supplier will produce a web application that will enable medical professionals to enter and administer patient data for use via the already created Eventum data platform. The web application will be used by clinical staff and system administrators (Customer and Supplier) to generate User's, login, register Patients, Password resetting, Patient search function, Schedule patient appointments and register Panel PCs (authentication for a data hub that forms part of the physical surgical product offering)</p> <p>The web application will be accessible by authorised users only.</p> <p>The Supplier will produce an iOS application that will enable patients to synchronise measurement data from a Bluetooth</p>

enabled device (e.g., a movement sensor attached to the patient after surgery) to the Eventum data platform. The functionality will include patient user registration, login, password resetting, Bluetooth device setup, and data synchronisation.

### **Web Application/Portal Specifics**

#### **Web Application Framework**

A web application framework will be created to provide the foundation for all user journeys via the application.

#### **User Registration**

This will be the process for initial onboarding of an operational unit (e.g., a hospital trust/ medical centre). The process will be initiated by a system administrator (the Supplier) outside of the Web Application, which will trigger an email to be sent to the admin user for the new operational unit. The registration journey will involve creation of a secure password. This user will be considered a super-user for that operational unit, which will grant them administration permissions, such as creation of other users

#### **User Creation**

This will only be available to administrators at the operational unit. It will allow creation of new user accounts assigned to one of the following three roles:

1. Administrator (can create other users)
2. Surgeon (in which case additional metadata about the surgeon will be captured)
3. Medical secretary (non-administrative role)

Once a new user is created, they will be sent a registration email (see User Registration above).

#### **Patient Registration**

Patient registration is the process whereby the user will capture the personal information belonging to a new patient (to that organisational unit).

#### **Patient Search**

The patient search will be available to all levels of user, and the data they are able to search for will be limited to patients that are registered with the same organisational unit (e.g., medical centre).

In the case of a user with the role of surgeon; they will also be able to search for all patients related to their care (as surgeons can belong to multiple organisational units).

Search parameters will be on surname, forename, and date of birth only and will be exact matches only.

### **Questionnaire**

There are several questionnaires that need to be incorporated into the Web Application e.g., Oxford Knee Score (OKS). Each of these questionnaires will be considered a basic data entry form for the initial application delivery.

This Scope of Work will include the creation of a minimum 3 questionnaires (one of which will be OKS).

### **Patient Scheduling**

This feature is to register patients (and edit already registered patients) on this system who have been scheduled for.

The scheduled surgery will include a) When the operation will be performed, b) What type of operation will be performed, and c) Who will perform the surgery?

Should the patient have a supported iPhone and access to an email address, they will be asked to consent to the process and be onboarded as a pre-registered user for the Mobile Application. This will be an optional feature of the IOS application.

### **Panel PC Registration**

The Panel PC is a physical device Data Hub that sits in the operating theatre and is part of Eventum's form's part

This process will be available to administrator users only and will be where they can see a list of existing Panel PC devices, as well as the option to register a new Panel PC.

Some basic metadata for each device will be required as part of the registration process. The output of this process will be a certificate that can be deployed to the Panel PC to use in its authentication mechanism with the Panel PC API.

### **Mobile Application Specifics**

#### **Mobile Application Framework**

A framework will be created for mobile application. This will provide the foundation for all user journeys on the application. This stage will include creation of the coding language framework and set up of automated Continuous Integration/Continuous Deployment (CI/CD) pipelines.

#### **User Registration**

The registration journey will involve creation of a secure password. Known, consenting patients will be sent an email containing information on how to register (the system should be able to send an additional email containing a single-use verification token should the need arise)

Patient accounts will be created via the Web Application

	<p>Any person who downloads the iOS application who does not yet have a user account will not be able to create one</p> <p><b>User Login</b> A standard login process will be created, backed by AWS Cognito. This process flow will include enter email address, enter secure password, authentication process, land on main menu page</p> <p><b>Password Reset</b> Password reset functionality can either be invoked by the existing, registered user, or by a clinical user</p> <p><b>Initial Device Setup</b> Once logged in to the mobile application, the user will be able to pair their Bluetooth enabled device with the app.</p> <p><b>Device Data Synchronisation</b> Paired devices will be able to share their data with the application, which in turn will send the data to the Eventum Data Platform where it will be correlated with the patient's record. This will include one-way integration with the iOS Health Kit. No data will be sent from the data platform to the application</p>
<b>Required project timescales (start and duration of project?)</b>	8 weeks
<b>Total Anticipated Project Value</b>  <b>(Please note that the procurement will only go ahead to contract once the funding has been agreed)</b>	The total value of the project has been estimated at £96,200.00
<b>Required response date (this must be at least 10 working days from posting of advert)</b>	05/4/2022 - 10 working days after posting the advertisement.
<b>How to apply?</b>	<p>Applications will be submitted through <a href="#">Contract Finder</a>, please use the template provided for you on the Contract Finder system.</p> <p>Any further questions in relation to the project requirements please contact Eventum Orthopaedics on the email address below.</p> <p>(Please email <a href="mailto:media@eventumortho.com">media@eventumortho.com</a> )</p>

Criteria for decision making	Criteria	%
	Experience of Global data compliance regulations	20%
	Experience of medical information management	20%
	Expertise and track record in AWS, Web portal, Cloud integration and IOS mobile applications (with minimum 1 reference per topic)	25%
	Price	25%
	ISO 27001 (to include all validation reports)	Must have
	Cultural Fit (company values, employee engagement and feedback, Corporate Social Responsibility and Sustainability)	10%
	Total	100%
Scoring	Tenders will be scored using the following criteria: -	
	<b>Price</b> The following formula will be used to translate the units into a score; -	
	$= \frac{\text{Lowest Score}}{\text{Price of tender being evaluated}} \times \text{Price Weighting (25\%)}$	
	This can then be added to the other quality scores.	
	<b>Quality</b>  To be used for all non-price related criteria and will be scored on the basis of the following scale below  Score per category will be % scale * % weighting for category and then scores will be added up at the end to give an overall score.	
100%	In respect of each element of the Services identified in the question, the proposals fully explain how the relevant element will be delivered to the standards required, throughout the term.  The proposals are clear, precise, and robust.  The explanation is sufficient to give a high degree of confidence that all of the relevant aspects of the specification will be delivered.	
80%	In respect of each element of the Services identified in the question, the proposals explain how the relevant element will be delivered to the standards required, throughout the term.  The proposals are clear, precise, and robust.	



		The explanation is sufficient to give a high degree of confidence that the relevant aspects of the specification will, for the most part, be delivered. To the extent that the explanation is not sufficient to give that high degree of confidence, the explanation does not raise concerns.
	60%	<p>In respect of each element of the Services identified in the question, the proposals explain, to some extent, how the relevant element will be delivered to the standards required, throughout the term.</p> <p>The proposals are clear, but there are some concerns around precision and / or robustness.</p> <p>The explanation is sufficient to give confidence that the relevant aspects of the specification will, for the most part, be delivered. To the extent that the explanation is not sufficient to give that confidence, the explanation raises one or more concerns but no material concerns.</p>
	40%	<p>In respect of each element of the Services identified in the question, the proposals explain, to some extent, how the relevant element will be delivered to the standards required, throughout the term, but for certain elements the explanation is very limited.</p> <p>There are concerns around the clarity, and around the precision and / or robustness, of the proposals.</p> <p>The explanation is sufficient to give confidence that the relevant aspects of the specification will be delivered to some extent. To the extent that the explanation is not sufficient to give that confidence, the explanation raises one or more concerns, one of which is a material concern.</p>
	20%	In respect of one or more elements of the Services identified in the question, the proposals fail to explain to any extent how the relevant element will be delivered to the standards required, throughout the term; and / or the proposals are mainly or wholly unclear; and / or the explanation is insufficient to give confidence that the relevant aspects of the specification will be delivered and / or the explanation for any one or more of the elements raises multiple material concerns.
	0%	No response or response is irrelevant to the question asked.
<b>Date for Contract Decision</b>		Contract decisions will be notified within 10 working days of the advert closing.