

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/005538-2021>

Future opportunity

Supply, Delivery and Commissioning of an Automated Fibre Placement System

University of Strathclyde

F01: Prior information notice

Prior information only

Notice reference: 2021/S 000-005538

Published: 18 March 2021, 3:48pm

Section I: Contracting authority

I.1) Name and addresses

University of Strathclyde

40 George Street, Procurement Department

Glasgow

G1 1QE

Email

kirstie.peffers@strath.ac.uk

Country

United Kingdom

NUTS code

UKM82 - Glasgow City

Internet address(es)

Main address

<http://www.strath.ac.uk/>

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00113

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Supply, Delivery and Commissioning of an Automated Fibre Placement System

Reference number

UOS-19992-2021

II.1.2) Main CPV code

- 42000000 - Industrial machinery

II.1.3) Type of contract

Supplies

II.1.4) Short description

The University is seeking notes of interest for the supply of an automated fibre placement system

This system is required by the National Manufacturing Institute of Scotland for the placement of composite prepreg tows in an automated process in order to efficiently and accurately manufacture fibre composite parts.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 42000000 - Industrial machinery
- 42900000 - Miscellaneous general and special-purpose machinery

II.2.3) Place of performance

NUTS codes

- UKM82 - Glasgow City

II.2.4) Description of the procurement

The University require an automated fibre placement system with integrated 6-axis industrial robotic arm, linear track, light curtain safety system, and end effector for composites manufacturing with thermoset prepreg tows.

This system is required for the placement of composite prepreg tows in an automated process in order to efficiently and accurately manufacture fibre composite parts.

A high-level specification for this system is as below:

- The offered equipment must include an Automated Fibre Placement end effector provided with and integrated with a 6-axis industrial robotic arm ("Robot") and control system.
- The Robot has a minimum payload of 50kg at maximum extension.
- The Robot must have a pose repeatability (according to ISO9283) of maximum $\pm 0.05\text{mm}$
- The offered equipment must include and integrate a linear track of approximately 2 meters in length for deployment of Robot and booster plate.
- The Automated Fibre Placement Systems end effector must be mounted on the end of the previously specified 6-axis robot.
- The offered equipment must include a manual quick-change mount on end of Robot arm to facilitate removal of AFP end effector without need of tools
- The offered equipment must include an Automated Fibre Placement end effector capable of placing 0.635-cm (1/4 in.) and 2.54-cm (1 in.) thermoset prepreg tows and be provided with end effector hardware necessary to do so.

II.3) Estimated date of publication of contract notice

9 April 2021

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at

https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=648021.

(SC Ref:648021)