Contract award notice

Results of the procurement procedure

Supplies

Directive 2014/24/EU

Section I: Contracting authority

I.1) Name and addresses

Official name:
Universiteit Twente
National ID:
50130536
Postal address:
Drienerlolaan 5
Town:
Enschede
NUTS code:
NL
Postal code:
7522NB
Country:
NL
Contact person:
Camilio Delfgaauw
Telephone:
+31 534891512
E-mail:
c.delfgaauw@utwente.nl
Fax:
-

Internet address(es)

Main address:
http://www.utwente.nl
Address of the buyer profile:
https://s2c.mercell.com/buyer/16033

I.2) Joint procurement

-

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

- Education

Go to top

Rijksoverheid

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Purchase of a additive manufacturing machine for multi-metal powder bed fusion processes
Reference number: EB OUT - 5778

II.1.2) CPV code(s)

Main code:
38000000 - Laboratoriuminstrumenten, optische en precisie-instrumenten (uitgezonderd brillen)
Supplementary code:
-

II.1.3) Type of contract

Supplies

II.1.4) Short description

The contract contains a commercial additive manufacturing machine for multi-metal powder bed fusion processes. It will be used for research into the interaction between material-process-product interaction, with a special focus on the interface zone between the different materials.

II.1.6) Information about lots

This contract is divided into lots: no

II.1.7) Total value of the procurement (excluding VAT)

Value: 869 280,00
Currency: EUR

II.2) Description

II.2.1) Title

-
Lot No: -

II.2.2) Additional CPV code(s)

-

II.2.3) Place of performance

NUTS code:
NL NEDERLAND

Main site or place of performance:
Enschede

II.2.4) Description of the procurement:

(nature and quantity of works, supplies or services or indication of needs and requirements)
A commercial additive manufacturing machine for multi-metal powder bed fusion processes. It will be used for research into the interaction between material-process-product interaction, with a special focus on the interface zone between the different materials.

Rijksoverheid

II.2.5) Award criteria

Price
Weighting: -

II.2.11) Information about options

Options: no

II.2.13) Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds: no

II.2.14) Additional information:

-

Go to top

Section IV: Procedure

IV.1) Description

IV.1.1) Type of procedure

Award of a contract without prior publication of a call for competition in the Official Journal of the European Union in the cases listed below

IV.1.3) Information about a framework agreement or a dynamic purchasing system

-

IV.1.6) Information about electronic auction

-

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

The procurement is covered by the Government Procurement Agreement: no

IV.2) Administrative information

IV.2.1) Previous publication concerning this procedure

Notice number in the OJ S: -

IV.2.8) Information about termination of dynamic purchasing system

-

IV.2.9) Information about termination of call for competition in the form of a prior information notice

-

Go to top

Section V: Award of contract

Contract No: EB OUT - 5778
Lot No: -
Title: -
A contract/lot is awarded: yes

Rijksoverheid

V.2) Award of contract

V.2.1) Date of conclusion of the contract:

16/09/2022

V.2.2) Information about tenders

Number of tenders received: 1
Number of tenders received from SMEs: -
Number of tenders received from tenderers from other EU Member States: 1
Number of tenders received from tenderers from non-EU Member States: -
Number of tenders received by electronic means: -
The contract has been awarded to a group of economic operators: no

V.2.3) Name and address of the contractor

Official name:
Aconity3D GmbH
National ID:
-
Postal address:
Kaiserstrasse 98
Town:
Herzogenrath
NUTS code:
DE
Postal code:
52134
Country:
DE
Telephone:
-
E-mail:
-
Fax:
-
Internet address:
-

The contractor is an SME: no

V.2.4) Information on value of the contract/lot (excluding VAT)

Initial estimated total value of the contract/lot:
-
Total value of the contract/lot: 869 280,00
Currency: EUR

V.2.5) Information about subcontracting

-

Go to top

Section VI: Complementary information

VI.3) Additional information

-

Rijksoverheid

VI.4) Procedures for review

VI.4.1) Review body

Official name:
Rechtbank Overijssel
Postal address:
-
Town:
Zwolle
Postal code:
-
Country:
NL
E-mail:
-
Telephone:
-
Internet address:
-
Fax:
-

VI.4.2) Body responsible for mediation procedures

-

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures:
-

VI.4.4) Service from which information about the review procedure may be obtained

-

VI.5) Date of dispatch of this notice

18/01/2023
Go to top

Annex D1 – General procurement: Justification for the award of the contract without prior publication of a call for competition in the Official Journal of the European Union

Directive 2014/24/EU

D1.1) Justification for the choice of the negotiated procedure without prior publication of a call for competition in accordance with Article 32 of Directive 2014/24/EU

The works, supplies or services can be provided only by a particular economic operator for the following reason:

- absence of competition for technical reasons

D1.3) Explanation

Please explain in a clear and comprehensive manner why the award of the contract without prior publication in the Official Journal of the European Union is lawful, by stating the relevant facts and, as appropriate, the conclusions of law in accordance with the directive:

Rijksoverheid

Powderbed fusion (PBF) is one of the additive manufacturing techniques to produce full metal products. The characteristics of PBF, resolution, product quality and commercial acceptance and application, make that this technology stands out to other multimetal additive manufacturing techniques. From a strategic perspective PBF is in nature a single metal production process.
Aconity and Aerosint have joined forces to develop a commercial machine that allows for multi-metal powderbed fusion. The machine to be acquired is a combination of a traditional PBf machine (Aonity) with a device that allows to create layers consisting of 2 metal powders (Aerosint). The deposition resolution within that layer is 0.5 mm, where each 0.5 mm pixel can be chosen to be any of the two metal powders. This deposition accuracy allows for research into the realization of multi-metal 3D structures. The commercial nature of this machine allows the research to focus on the research on the interaction at material-process-product level, without requiring to develop dedicated hardware by the research team itself. The Aerosint device is patented and unique in the world. Aconity is the only commercial company that delivers turnkey systems with the Aerosint solution installed and supported.
The machine itself will be used for the research into interface effects of dissimilar materials when subjected to the laser source. These interactions are unknown and complex. The following options are considered essential for optimizing process parameters and studying these interface effects
• Laser spot sizes of • a 3D Scan Head
• High speed camera for process observation
• Pyrometry for recording of thermal emissivity
• Free slots to add additional sensors
• Total freedom to define processing parameters
Research wil be started on the effects of multi-metal fusion on micro meso and macro (product) level. To do so, the hardware should enable to deposit the required material at specific locations in layers of the powderbed.
The solution provided by Aerosint allows to deposit a 2d pattern of two metals, with a pixel size of 0,5 mm. This allows to research the material interfaces, both for more rudimentary structures as well as at product level.
The following patent is associated with this machine:
Database: Espacenet. Applicant: Aerosint
Date of data retrieval: 18-2-2022
Leveling system and method. Date: 2021-06-17
ID's:BE1027856A1; BE1027856B1;WO2021116409A2;WO202111640' 3
Method and Device for forming an material pattern. Date: 2019-10-3
ID's: EP3774368Al;WO2019185626A1
Device and method for manipulating particles. Date: 2018-04-05
ID : AU2017333287A1; BE1024613A1; BE1024613B1; CA3037789A CN109803775A; CN109803775B; EP3519163Al; JP2019529189A; KR20190061020A; RU2019109654A; RU2019109654A3; RU2742939C2; US2019240902A1; WO2018059833A1
Methode et dispositif pour former un motif de matiere. Date: 2019-10-22
ID : BE1026152Al;BE1026152B1
DISPOSITIF POUR MANIPULER DES PARTICULES Date: 2019-10-03
ID's: BE1026143A1; BE1026143B1; EP3774293A1; US2021114296Al WO2019185466A1
Go to top

1. I: CONTRACTING AUTHORITY
2. II: OBJECT
3. IV: PROCEDURE
4. V: AWARD OF CONTRACT
5. VI: COMPLEMENTARY INFORMATION
6. D1 – GENERAL PROCUREMENT: JUSTIFICATION FOR THE AWARD OF THE CONTRACT WITHOUT PRIOR PUBLICATION OF A CALL FOR COMPETITION IN THE OFFICIAL JOURNAL OF THE EUROPEAN UNION

Rijksoverheid