



**Invitation to tender in a simplified below-the-threshold procedure
pursuant to § 53 (1) of Act No. 134/2016 Coll. of placing public contracts,
as amended, (hereinafter referred to as the "Act")**

Contractor:

Name of the contracting authority	Jan Evangelista Purkyně University in Ústí nad Labem
Registered office of the contracting authority	Pasteurova 1, 400 96 Ústí nad Labem
Name and surname of the statutory representative who is authorised to act on behalf of the contractor	doc. RNDr. Martin Balej, Ph.D. – rector
Contractor's Reg. No	44555601
Contact person	Ing. Vladislav Šrajbr department of public contracts tel.: 475286356 email: vladislav.srajbr@ujep.cz

The above stated contractor, pursuant to § 53 (1) of Act, announces an intention to place a public contract named:

Microarray printer and laser scanner – 2017/0008

(hereinafter referred to as the „public contract“)

The contractor of the public contract

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for proposals for performing the public contract within the following project:

Registration number of the project: CZ.02.1.01/0.0/0.0/16_013/0001821

Name of the project: ProNanoEnvi – research infrastructure

Operational Programme: Research, Development and Education

I. Tender documentation and its accessibility:

The text part of the tender documentation, including all its attachments are accessible in the electronic format in the E-ZAK system in the Tender documentation for the public contract section.

The system is accessible at <https://ezak.ujep.cz>

After signing in to the E-ZAK system, the candidate must have the electronic signature certificate.

The electronic signature is necessary to complete the process of registration in the E-ZAK system. See the following link

https://ezak.ujep.cz/data/manual/QCM.Podepisovaci_applet.pdf

Detailed information on using the E-ZAK system is to be found at

<https://ezak.ujep.cz/data/manual/EZAK-Manual-Dodavatele.pdf>



1. Subject matter of the public contract

Microarray printer and laser scanner

Tender for a purchase of a set of 2 instruments for the purpose of research in the area of microarray biosensors. The two systems will be delivered within the tender: (i) a microarray printer; (ii) a microarray laser scanner. The minimal technical specifications of the instrument set are described further in the text. The offer which meets the minimal technical configuration and the lowest price of the set will be selected as a winner.

The maximal price of the set included duties, transport and installation is 84 085 EUR without the VAT.

Microarray printer

Characteristic features:

Microarray printer for producing diverse DNA, protein, reverse phase and whole cell microarray content in personal desktop designs. Automated solution to innovative microarray research, genomics, proteomics and diagnostics, life science and health care related to basic and application research.

Minimal technical specifications

- Minimal 4-pin printhead configuration in a 2 x 2 pattern
- Printhead for reduced friction and printing precision
- Axis resolution and repeatability min. of $\pm 10 \mu\text{m}$
- Deck which accommodates at least 14 standard glass substrate slides (25 x 76 mm)
- Deck which accommodates 1 microplate (384-well)
- Complete deck and microplate cooling/heating from 4°C - 45°C
- Humidity control from 10-80% RH with tolerance max. $\pm 1 \%$ or better at steady state
- At least 3,600 spots per sub-microarray (9 x 9 mm)
- At least 50,400 spots per entire substrate (18 x 63 mm)
- Sonic wash station for pin cleaning
- A set of starting pins
- PC and software for instrument control included

Microarray laser scanner

Characteristic features:

The instrument is made for the purpose of developing new sensitive optical protein/DNA/whole cell microarray diagnostic devices (biosensors) for environmental or biomedical applications. It will enable performing a highly sensitive scanning of fluorescence signals located on micrometer-sized spots of fluorescently labelled molecules attached to active biosensor surface. The instrument will be equipped with a powerful software for fast analysis of acquired data from individual spots with 3 μm scan resolution. Automated solution to innovative microarray research, genomics, proteomics and diagnostics, life science and health care related to basic and application research.

Minimal technical specifications

- Lasers - Thermoelectrically cooled laser diodes with stabilized feedback output
- Excitation wavelengths - 532 and 635 nm
- Laser power – adjustable



- Gain PMT - Linear from 0 to 100%
- Autofocus - Real-time and automated
- Detection - confocal and high performances digital laser/PMT system
- Optical resolution – min. 3 μm or better
- Pixel size – min. range 3 μm to 40 μm
- Scanning time – max. 3.5 min per 22 x 74 mm substrate at 10 μm resolution or better
- Scan area - Full substrate slide area (22 x 74 mm)
- Sensitivity – min. 0.05 Fluor/ μm^2 or better
- Dynamic range >10,000-fold
- Open platform glass substrate slides (25 x 76 mm)
- Highly accurate grid positioning using automatic spot recognition for accurate quantification and 16-bit exportable TIFF data
- Compatible fluorophores: Cy5, Cy3
- PC and software for instrument control and image analysis with automatic spot recognition included

General conditions of purchase

- Minimum of 2-years warranty
- On-site installation and staff training by a company specialist
- Guaranteed service of the equipment available within 10 working days

II. The time limit of performance of the public contract:

Date: The time limit for tenders starts on the following day after the day when the text of the call has been published.

The time limit for submitting the electronic tenders is set on 29. 03. 2017 at **10:00 CET.**

III. Method of submitting the proposals including relevant information

The contractor requires the tender to be submitted via the E-ZAK UJEP electronic application (<https://ezak.ujep.cz/>). The scanned files (signed and stamped) are to be submitted in the following formats: pdf, bmp, jpeg.

The contractor's requirement of submitting the tender in the electronic format only is pursuant to § 103 (C) of the Act.

The tender must be prepared in Czech or in English.

The candidate is to send the proposal via the E-ZAK public contracts system (<https://ezak.ujep.cz/>).

IV. Defining the contractor's requirements the proof of qualification:

The contractor does not require any proof of qualification.

V. The rules for evaluating the proposals:

The evaluation of tenders will follow the economic criteria preferring the lowest tender price without VAT.

Evaluation methods:



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The contractor makes a ranking that reflects the tender price in EUR without the VAT from the lowest to the highest.

The most convenient tender is the one containing the lowest tender price in EUR without the VAT of all the tenders.

doc. RNDr. Martin Balej, Ph.D. – rector

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13 -03- 2017

In Ústí nad Labem on