



**Bidding announcement  
in a public procurement contract for atomic-force microscope (AFM)  
below the value threshold of Art. 20, para. 4 of the Public Procurement Law of  
Bulgaria**

On the basis of Order № 240 / 15.04.2016 of the Rector of the University of Architecture, Civil Engineering and Geodesy (UACEG), a public procurement is organized with the subject "Supply of atomic-force microscope" for the needs of UACEG in fulfillment of the working and financial program of contract with the National Science Foundation of Bulgaria № KP-06-OPR 03/9, coordinated by Assoc. Prof. George R. Ivanov and Contracting Organization - UACEG. If you are interested, we invite you to submit written quotation that meets the following requirements of the Contracting Authority:

1. The instrument is new;
2. The instrument must comply with the minimum technical requirements described below.

**Deadline for submission of tenders - 17:00 on 16.09.2019. Tenders signed by an official representative of the participant can also be submitted in electronic form by e-mail.**

**General requirements**

At this stage of the contract we have allocated BGN 21600 for the purchase of fixed tangible assets including 20 % VAT. This means that the value of the equipment with transport included and excluding VAT can reach up to BGN 18,000 (9,185 euro). We are entitled to some minimal redistribution of the contract amount if the above price is insufficient. We are prone to favorable terms of payment and terms for making the equipment. We prefer purchasing and support of the microscope directly from a manufacturer. For further information: Assoc. Prof. George R. Ivanov, tel.: +359 885 465 535, email: [george@at-equipment.com](mailto:george@at-equipment.com) Quotations can be sent to the same e-mail address and deposited with the UACEG Registry at the above address, floor 2. The documents in the tender must be signed by the person representing the participant or by another person authorized by him/her, accompanied by a copy of the power of attorney. Validity of quotations - minimum 3 months. A contract will be concluded with the selected instrument supplier, a draft of which is set out in Appendix 1 to this documentation.

**Minimal technical requirements**

- Minimum scanning range on X – Y axis - 50 µm; on Z 5-µm; preferably a flexure scanner with higher planarity of scanning;
- X-Y resolution, which is limited by the fact that it is working in the air. Minimum resolution X-Y < 2 nm (with high resolution tips); Technical resolution < 0.3 nm;
- Resolution on Z < 0.2 nm; technical resolution < 0.05 nm;
- Support of a dynamic (noncontact) and static (contact) mode of operation;

- Support of all main modes of operation such as topography, lateral force microscopy, phase contrast, magnetic force measurement, force spectroscopy, surface conductivity;
- Integrated basic anti-vibration protection;
- Ability to work with samples with more than 3 x 3 x 0.5 cm (W x D x H) dimensions;
- Precise movement of the sample in the X-Y direction of at least 4 mm;
- Optical video camera for tip and support monitoring;
- A computer with installed hardware and software if hardware is required to be installed in the computer;
- Startup accessories (magnetic pads if necessary, minimum set of tips for use in dynamic and contact mode)
- Detailed instructions manual in English or Bulgarian.

#### CLASSIFICATION OF SUBMITTED QUOTATIONS:

**The ranking will be based on the "best value for money" criterion.** The cost parameter enters with 30% weight, and the quality parameter - with 70% weight. The lowest price gets a number of points equal to the number of bids received after it (at each higher price) in descending order, with a one point decrease compared to the previous highest ranked. The points obtained are multiplied by the weight 0.3 and are denoted by "P". In the quality parameter, each of the above 12 minimum requirements is assigned the same weight. An additional bonus of quality is given for additional possible modes of operation of the microscope as well as for the possibility of subsequent system upgrades, each of which is appreciated with (one more) point. The total score of the technical proposal is divided into 14 (12 (the number of minimum tech requirements) + 2 (bonus points)) and the result is multiplied by the weight 0.7. This is denoted by "T".

**The final ranking of participants is in descending order depending on the total score calculated as follows (TotalScore = P + T).**

Submitted quotations will be ranked by 30.09.2019.

Rector of UACEG



(Prof. Dr. Eng. Ivan Markov)

Съгласно на закон за защита на лични данни (GDPR-33/14)