

**SEE- Award (name "Herman Potočnik – Noordung Award" proposed by MHEST) for
 Research Infrastructure Donations within the Framework of RTDI Collaboration
 with West Balkan Countries**

**Research Infrastructure needs
 - Application form for Scientific & Research Institutions from West Balkan Countries**

Section A – General information	
A.1 Contact details	
Name of applicant/(institution)	"DZEMAL BIJEDIC" UNIVERSITY OF MOSTAR FACULTY OF MECHANICAL ENGINEERING
Legal status / Type of organisation:	STATE UNIVERSITY
Address (Street name, ZIP code, town):	MARSALA TITA B.B., 88104, MOSTAR
Telephone no.:	+387 36 571 258
Fax no.:	+387 36 571 258
e-mail:	sead.pasic@unmo.ba
web address/url:	www.mf.unmo.ba
represented by (name of person legally responsible)	Prof. Dr. Smail Klaric, dean
Name of the contact person	Prof. Dr. Sead Pasic
Address (if different from address stated above)	Sead Pasic FACULTY OF MECHANICAL ENGINEERING MOSTAR MARSALA TITA b.b., 88104 MOSTAR
Telephone no.:	+387 36 571 315
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web address/url:	www.mf.unmo.ba
A.2 Applicant (Institution) profile (half page A4)	
<p>The Faculty of Mechanical Engineering in Mostar was founded on November 1959 as a two-year School of Mechanical Engineering. In 1968 it became part of University of Sarajevo – the only existing University at the time. In 1975, a decision was made that the Department of Mechanical Engineering should be separated from the Faculty of Mechanical Engineering of Sarajevo, and then founded as an independent Faculty. During the war, as part of Dzemal Bijedic University, Faculty lost its premises, all researche equipment and a great number of teachers and associates. Teaching process was re-started in new premises in an ex-military campus, now serving as the University campus.</p> <p>The Faculty offers four-year studies, as well as master's and doctoral degrees. Nowadays, something about 250 students are enroled at Faculty and teaching process is performed by 29 professors and assistants.</p> <p>The Faculty has cooperation with several foreign universities: Paderborn – Germany (regular students exchange), Maribor - Slovenia, Graz – Austria, Lyngby - Denmark, etc.</p> <p>Institute of Mechanical Engineering exists within the Faculty as its scientific-research unit. Before the war, the Institute was the bearer of scientific work and link among production process, fundamental research and academic education.</p> <p>During the war, the Institute shared the destiny of the rest of the University – remaining entirely with no facilities, very valuable equipment and considerable number of highly educated staff. Nowadays, it is in possession of nearly 1.000 m² of laboratory and classroom space, consisting of a workshop for mechanical treatment of materials and welding, a computer center, a equipment for ultrasonic material testing, voltage-deformation condition testing, vibration and noise measuring, as well as other measuring and testing equipment. The Institute has cooperation with related institutions at home as well as foreign universities.</p>	

<p>Section B – Description of the research infrastructure requirements/needs</p> <p>B.1 Please list your research infrastructure requirements – the most urgent equipment you would need.</p> <p>1. Materials Science Microscope (OLYMPUS BX 51 with advanced accessories) – 10.915 € 2. Digital Microscope Camera and Software (compatible with OLYMPUS BX 51) – 13.522 € 3. High Speed Camera with Software (Photron Fastec Cam 500 fps) 6.335 € 4. Portable Computer - 1.050 €</p> <p>B.2 Describe the relevance of the requested research infrastructure for the work of your institution and the potential impact of receiving the items listed above (B.1).</p> <p>1. & 2. It will advance scientific activities on field of materials science, as well as other processes such as welding processes, thermal processing of materials, researching of mechanical operations such as machining, sanding, or grit blasting on the surface smearing. Also it will improve laboratory practices for students in the field of microstructure analysis. 3. & 4. FACULTY OF MECHANICAL ENGINEERING IS IN PROCESS OF RECONSTRUCTION OF EQUIPMENT FOR RESARCH AND EDUCATION PROCESS. BY GRANTS OF GOVERNMENT OF FEDERTION B&H ARE BOUGHT EQUIPMENT FOR MEASUREMENT OF MECHANICAL AND THERMODYNAMICAL VALUES. THIS EQUIPMENT MAY BE USED ONLY FOR MEASUREMENT OF RESULTS OF ANALYSING PROCESS. THERE IS BIG NECESSITIE FOR EQUIPMENT WHICH ENABLES OPTICAL INSIGHT IN NATURE OF VERY SPEED PROCESSES SUCH: CUTTING, DEEP DROWING, FLUID FLOWS, FORMING OF WELDING ARC, HUMAN MOTIONS, FAST VIBRATIONS, ..., EQUIPMENT FOR THIS PURPOSE WILL BE OF GREAT BENEFITS NOT ONLY FOR RESEARCHERS AT FACULTY THEN ALSO TO STUDENTS IN TEACHING PROCESS.</p> <p>B.3 Please indicate the potential users of the requested equipment.</p> <p>1. Profesors and Assistants – for research activities 2. Students – for education process Scientist for researching in this field of science, (researching influence temperature exchange on materials and granulation, in welding processes in heat affected zone), students in learning processes (for different kids of laboratory practices, in subjects like Material testing, Welding processes, Material science, Machining, etc.)</p> <p>B.4 Please describe the training needs of your institution related to the requested equipment</p> <p>No training is needed. Mounting and usage training will be provided using accompanying manuals.</p> <p>B.5 Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment</p> <p>Not necessary.</p> <p>B.6 Additional Comments</p>
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Please fill in and return the form by email to the contact person in your country (see appendix 1)

Place, date: Mostar, 13. Nov. 2007



Signature and Stamp of applicant

[Handwritten signature]