

**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**

<b>Section A – General information</b>	
<b>A.1 Contact details</b>	
Name of applicant/(institution) Prof.dr Radomir Vukasojevic/University of Montenegro – Mechanical faculty	
Legal status / Type of organisation: Full Professor / education and research	
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web address/url:	
represented by Prof.dr Goran Culafic Dean of Mechanical faculty	
Name of the contact person Prof.dr Radomir Vukasojevic	
Address (if different from address stated above)	
Telephone no.:	
Fax no.:	
e-mail:	
web address/url:	
<b>A.2 Applicant (Institution) profile (half page A4)</b>	
Appendix 1	

<p><b>Section B – Description of the research infrastructure requirements/needs</b></p> <p><b>B.1 Please list your research infrastructure requirements – the most urgent equipment you would need.</b></p> <ol style="list-style-type: none"> <li>1. Rapid prototyping system ( liquid-based or solid –based or powder based)</li> <li>2. 3D Digitizer</li> </ol>
<p><b>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).</b></p> <p>Appendix 2</p>
<p><b>B.3 Please indicate the potential users of the requested equipment.</b></p> <p>The Advances manufacturing laboratory is the only place in Montenegro where researchers, engineers and students can work and get the first experience on application new and innovative manufacturing technologies</p>
<p><b>B.4 Please describe the training needs of your institution related to the requested equipment</b></p> <p>-A short course about rapid prototyping system</p>
<p><b>B.5 Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment</b></p> <p>no</p>
<p><b>B.6 Additional Comments</b></p> <p>The Center for Manufacturing Systems and processes has enough laboratory space</p>

## **APPENDIX 1**

Mechanical faculty was founded 1970. as a part of Technical faculty. From 1992. Mechanical faculty is one of units of University of Montenegro.

Mechanical faculty organises undergraduate, specialist postgraduate MSc degree programmes and develops doctoral programmes. The study is divided in four Bachelor courses:

- Production Engineering and Management
- Applied Mechanics
- Transport Technology
- Power Engineering Machines and Equipment

And ten postgraduate studies.

The research carried out at the Faculty of Mechanical Engineering covers a broad spectrum, first of all, a number of technology areas. We participate in projects within international bilateral agreements and Europe Union projects. From 1992-2006 more than twenty projects were supported by national grant agency (Ministry of education and science).

Various tasks of industrial design, product and product planning, equipment maintenance and many other problems of industry and society for different companies and industries were solved by Faculty members too.

Faculty of Mechanical engineering enrol 80 students each year. The Faculty of Mechanical Engineering provides the Bachelor, MSC and PhD courses in Montenegrin language.

## **APPENDIX 2**

New and innovative manufacturing technology emerging from the proposed research program will be implemented primarily within the Montenegro manufacturing sector that will provide a competitive economic advantage in industrial development. The existence of the laboratory for Advanced manufacturing at the University of Montenegro will significantly enhance the already existing research capabilities and will provide a place to educate scientists and engineers in areas of advanced Manufacturing processes.

Currently our research in advanced manufacturing processes is focused on understanding CNC processes. Special emphasis is given to 3D modelling and to the monitoring and control of these processes. The results of our work are presented on national and international conferences. The gained experience in advanced manufacturing processes will be significantly enhanced by using rapid prototyping system.

Please fill in and return the form by email to the contact person in your country

Place, date: **Podgorica, 19.10.2007.**

Signature and Stamp of applicant

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Prof.dr Radomir Vukasojevic\_\_\_\_\_