

## **Call for Grant**

**The Pro Progressio Foundation and the Department of Aeronautics, Naval Architect and Railway Vehicles at the Budapest University of Technology and Economics had opened a call for Grant**

**Deadline for application:** October 10, 2013

**The Call is opened for BSc, MSc and PhD students specializing in architect, transportation engineering, logistics, air transport engineering and aeronautical engineering.**

**6 - 8 persons can be granted with use of total amount 860 000 HUF (in net)**

***Requirements: study the defined theme, summarizing the results on 12 - 15 pages (in English) and in 10 figures (4 of them on the page A3 size) before December 1, 2013.***

***Consultancy will be provided by the Department.***

***The themes of the call are the followings.***

### ***Future Airports as Intermodal Transport Hubs***

- research and analysis, solutions for future airports
- execute traffic analysis and determine main specifications of small/medium/large airport
- prepare visuals of site plan and birds eye views

### ***Future Airport Development: Aircraft Ground Service Production Line***

- research and analysis, aircraft ground handling and operation
- developing the aircraft ground handling line concept
- concept design of the airport with aircraft handling line

***Future Airport Development: Ultragreen Airport Development (GABRIEL concept)***

- research and analysis, new emerging technologies
- influence of the Gabriel concept on the airport sites
- concept sketches

***Increasing the Airport Capacity: Ground Based System***

- research and analysis, definitions and solutions of the airport capacity problems
- development and specification of the ground system for measuring the actual weather and air conditions (wind distribution, turbulence, etc.)
- concept sketches

***Increasing the Airport Capacity: Aircraft On-board System***

- research and analysis, definitions and solutions of the airport capacity problems
- development and specification of the aircraft on-board system (new principles of distribution, turbulence, etc.)
- concept sketches

***Airport Energy Support: Developing a Sustainable Green Energy Support***

- research and analysis, autonomous tri-generation energy support system
- development and design a system based on the green alga
- conceptual planning the system

***Airport Energy Support: Developing the Emergency and Standby Power Generation***

- research and analysis, emergency and standby power generation for airports
- development and design the small size turbines for distributed electric power generations
- conceptual design of the system

***All the students would like to apply for grant are invited for consultancy to be held on***

***Thursday (October 3, 2013) 16.00***

***at the Department of Aeronautics, Naval Architect and railway Vehicles,***

***floor 4th in building "J" at BME, (Jozsef Rohacs)***

