

Questionnaire on research strengths and emerging areas of research focus in preparation for the INU Research Workshop

Name of university: Budapest University of Technology and Economics

Please give brief comments on the following:

1 General information on university

- Location: H-1111 Budapest, Múegyetem rkp. 3, Hungary
- Contact details:
Phone: 36-1-4631111
Fax: 36-1-4631110
- Website URL : www.bme.hu
- Public or private institution? Public University
- Organization chart on university set up
- Programs (main programs, profile)
Faculties:
 - Arhitecture
 - Chemical Engineering
 - Civil Engineering
 - Economic and Social Sciences
 - Electrical Engineering and Informatics
 - Mechanical Engineering
 - Natural Sciences
 - Transportation Engineering
- Staff
 - Number of full time equivalents (general, academic) 1232
 - Number of individuals (general, academic)

2 General information – research

- Students
 - Number of full time equivalents (PhD and Master's by research and by course work) by areas of study

Arhitecture	18 PhD students
	39 DLA students
Chemical Engineering	100 PhD students
Civil Engineering	89 PhD students
Economic and Social Sciences	174 PhD students
Electrical Engineering and Informatics	212 PhD students
Mechanical Engineering	92 PhD students
Natural Sciences	79 PhD students
Transportation Engineering	71 PhD students

- Annual research income
 - Internal sources: 3 Mrd HUF (national sources)
 - External sources: 1 Mrd HUF (international sources)
- Summary of annual research report quantifying research output in terms of
 - Books
 - Referred journal articles
 - Referred conference papers
 - Research reports
 - Consultancy reports
- Does your university have any specific research institutes? If so, please list them with brief descriptions of the activities.
Knowledge Centre, Cooperative Research Centers:
 - Advanced Vehicle Control Knowledge Centre
 - Inter-University Research Centre for ICT
 - 3G/4G Mobile Communication Centre
 - Cooperative Research Centre for smart (intelligent) materials
 - IT Innovation and Knowledge Centre
- Does your university have a research park? If so, please give a brief description of the facilities.
- Does your university offer research training support, e.g. providing facilities for postgraduate students, scholarships and conference assistance?
Fifth Framework Programme: Marie Curie Programmes
- Please provide a summary of the university's research plan and organizational set up, including separate responsibilities.
- Does your university provide assistance for visiting scholars and post-doctoral scholars? If so, please briefly describe the nature of this assistance.
Socrates/Erasmus Programs

3 Self identified research strengths and areas

Please list your university's current research strengths and the reason/s why they have been identified. Within these areas of research strengths, describe the particular areas of focus and please provide details of contact person/s. Areas of excellence can either be stated according to "research focus" areas which have been developed along the lines of research groupings/clusters (cross-disciplinary) or by disciplinary-based delineations.

Area of Information Technology:

- Mobil communication
- Intelligent mobile robots
- Intelligent control system algorithms for the public traffic
- Superconductors
- Computer graphics
- Multimedia techniques
- Telematics

Area of Chemical Engineering

- Cell biology
- Enzymology
- Bioinformatics
- Environmental sciences
- Food research
- Biotechnology

Further areas:

Material sciences, Nanotechnology, Nanosciences
Biomechanics
Biomedical engineering
Nuclear engineering
Economy and social science
Transportation

4 Areas of emerging interest

Please evaluate and describe in your own words what you consider to be your university's emerging areas of research focus or areas of interest to develop further. Also describe the focus on the research planned to be carried out and details of contact person/s. Areas of excellence can either be stated according to "research focus" areas which have been developed along the lines of research groupings/clusters (cross-disciplinary) or by disciplinary-based delineations.

5 Funding sources

Please comment on possible national and international funding sources your university has applied for, is planning to apply for or is aware of.

National funding sources:

- National Research and Development Program
- Research and Development Division of the Ministry of Education
- Hungarian Scientific Research Fund
- Hungarian Science and Technology Foundation
- Hungarian Academy of Sciences
- Hungarian Board of Scholarship
- Information and Communication Technology Program

International funding sources:

- 6th Framework Program
- German Academic Exchange Service
- Socrates/Erasmus Program
- Central European Exchange Program for University Studies

6 Contact information

- Vice-President/Vice-Rector (or equivalent) with responsibility for research management
 - Name
 - Position title
 - E-mail address

- Manager of Research Office
 - Name
 - Position title
 - E-mail address

7 Comments on program for research work shop

Please comment on any specific areas you consider important to be covered at the INU Research work shop. Also note if there are any specific speakers you would like to see invited and/or which areas they should cover (e.g. funding possibilities, research management etc).

8 Name, date and email for further information

Name:

Date:

Email address: