



INVENT



Promotion of Innovation Culture in the Higher Education in Jordan

561996-EPP-1- 015-1-JO-EPPKA2-CBHE-JP

Dear Sir/Madam,

In December 2015, a consortium of fourteen partners from Jordan, Germany, Spain, Cyprus, Italy, Portugal, Greece and United Arab Emirates joined the project entitled “**Promotion of Innovation Culture in the Higher Education in Jordan (INVENT)**”- a three years Cooperation for innovation and the exchange of good practices, co-founded by the European Commission under the Erasmus+ programme.

The project concentrates on strengthening and enhancing the role of higher education institutes and universities in innovation capacity building, technology transfer and commercialization of applied scientific research outcome in Jordan aiming at the creation of the essential environment for innovation in order to build a knowledge-based economy.

The main objectives of the project that will be met through the **establishment of 4 Centres for Transfer of Innovation (CTIs)** in Jordan are:

- the development of economic thinking and interest to use innovation by entrepreneurs and business community,
- the raising of awareness of the innovation importance among the university researchers and the local businesses,
- the provision of chance to the researchers to apply their research results,
- the provision of a clear view of the technological needs of the local industries so that the research and researchers’ priorities can be well identified,
- the capacity building of CTIs’ staff in order to enhance the sector of innovation and technology transfer.

The INVENT team kindly requests your participation in a survey focused on the identification and analysis of the training needs of future workers in innovation and entrepreneurship promotion centres.

To this end, your answers will be of great help for the establishment of Centres for Transfer of Innovation that will be effective in accomplishing their goal. Most of the questions can be answered by clicking boxes that have the best correspondence with your expectations.

Participation in the survey is voluntary. All responses will be treated with the strictest confidence and no individual will be identifiable in the published report. However, we would be extremely grateful for your valuable implication and input, if you agree to participate.

What will be your benefit?

Participating in the survey promises longer-term benefits as the findings will form the basis for the promotion of innovation culture in the Universities of Jordan so that they become a pillar in the development of a knowledge-based national economy.

If you have further questions please contact Dr. Muhannad Al-Jarrah, [Tel:xxxxx](tel:xxxxx), email: xxx [\[name and telephone number or email of the responsible person of the project partner\]](#).

We would be very pleased if you could send us the completed questionnaire through e-mail: [\(address\)](#) or fax: [\(fax number\)](#) no later than [\[date\]](#).

Thank you in advance for your cooperation.

Yours faithfully,

Prof. Fahmi Abu Al-Rub

INVENT Project Coordinator



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QUESTIONNAIRE

Part A: General Information

Please provide some information about yourself

1. Your university

- 1 Jordan University of Science and Technology
2 Jordan University
3 Other (please specify) _____

2. Your position in the university (please tick from both groups if required)

- Managerial positions:

- 1 vice-rector 2 Dean 3 vice-Dean 4 Head of department 5 Other _____

- Teaching degree:

- 1 Professor 2 Associate professor 3 Lecturer 4 Other _____

3. Your scientific title 1 PhD. 2 Other _____

4. Gender 1 M 2 F

5. Age 1 under 25 2 25-29 3 30-39 4 40-49 5 50-59 6 60+

6. Your research interests

- 1 Information technology 2 Biotechnology and pharmaceuticals
3 Computing and electronics 4 Nanotechnology
5 Chemicals and chemical technology 6 Renewable energy (solar, wind, etc)
7 Environmental technology (water treatment, air pollution, etc)
8 Other (please specify) _____

7. Number of publications related to your research interests

- 1 0-5 2 6-10
3 11-15 4 16-20
5 21-25 6 more than 25



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Part B: Partnership with Industry (Personal Experience)

If you haven't done any projects in collaboration with industry, please skip this part to the next one

8. Who initiated the first contact between you and your industrial partner?

1 You 2 Your industrial partner 3 Other (please specify) _____

9. Number of projects (past or current) performed with partnership with a private industrial sector

1 1 2 2 3 3 4 4 5 5 6 6 7 6 8 more than 7

10. From the private industrial companies which you cooperated with, please number how many had employees:

1 0-9 2 10-49 3 50-249 4 more than 250

11. Number of projects (past or current) performed with partnership with a public industrial sector

1 1 2 2 3 3 4 4 5 5 6 6 7 6 8 more than 7

12. Number of publications resulted from your partnership with the industry

1 0-5 2 6-10
3 11-15 4 16-20
5 21-25 6 more than 25

13. Please indicate who is financing the project(s) (please tick multiple if required)

1 Self-financed projects 2 Regionally funded projects 3 Nationally funded projects
4 EU funded 5 Other (please specify) _____

14. Amount of fund received from industry, national public sources and EU public sources.



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	Less than 1000	1000-5000	5000-10000	10000-20000	> 20000	No fund received
1 industry (average fund/project)	1	2	3	4	5	6
2 national public sources (average fund/project)	1	2	3	4	5	6
3 EU public sources (average fund/project)	1	2	3	4	5	6

15. Did you receive financial compensation for your time that you spent on this research?

1 Yes 2 No

16. Did any of the projects that you performed with an industrial partner resulted in a registered patent?

1 Yes 2 No

If yes, who owns the patent? (please tick multiple if required)

1 industry owned 2 university owned 3 joint ownership
4 Other (please specify) _____

17. Are you satisfied with your partnership with the industry ?

1 Yes 2 No

If "No", what was the major source of your dissatisfaction? (please tick multiple if required)

1 Shortage of fund 2 Lack of productive communications
3 Conflict over IP rights 4 Difficulty in dealing with industry management
5 Misaligned priorities 6 Other (please specify) _____

18. In your opinion, did your partnership with the industry impact your teaching methods at the university? (i.e. curricula improvements)

1 Yes 2 No

19. Did you have students involved (graduate/undergraduate) during your partnership with industry?



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1 Yes 2 No

20. Please state your opinion whether the students who are involved in partnership research with the industry are more likely to develop the following skills [rate on a scale of 1-5, where 1= Totally disagree, 3= Neither agree nor disagree, 5= Strongly agree]

Skills					
1 New oral/verbal communications skills	1	2	3	4	5
2 New critical thinking/problem solving skills	1	2	3	4	5
3 New judgment/decision making communications skills	1	2	3	4	5
4 New teamwork skills	1	2	3	4	5
5 Time management skills	1	2	3	4	5
6 Innovation/creativity thinking	1	2	3	4	5

21. Has the research problem that you tackled been solved?

1 Yes 2 No

22. Based on your personal experience, are you willing to partner with the industry again/ recommend partnership to a friend?

1 Yes 2 No

Part C: Partnership with Industry (General perspective)



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Please answer the following questions based on your general perception of the subject

23. In your opinion, who should be responsible for establishing new partnerships between universities and industry?

- | | |
|---|---|
| 1 <input type="checkbox"/> The university | 2 <input type="checkbox"/> The industry |
| 3 <input type="checkbox"/> The government | 4 <input type="checkbox"/> The RTO (Research Technical Organizations) |
| 5 <input type="checkbox"/> Other (please specify) _____ | |

24. From your point of view, please rate the following as benefits for industry-university partnership [rate on a scale of 1-7, where 1=less important and 7=more important]

- | | |
|--|--|
| 1 <input type="checkbox"/> Additional revenue for the university | 2 <input type="checkbox"/> More rapid technological diffusion |
| 3 <input type="checkbox"/> Positive effect on curriculum | 4 <input type="checkbox"/> Local/regional economic development |
| 5 <input type="checkbox"/> Two way knowledge transfer | 6 <input type="checkbox"/> Association |
| 7 <input type="checkbox"/> Chamber | |

25. From your point of view, please rate the following as drawbacks for industry-university partnership [rate on a scale of 1-5, where 1=less important and 5=more important]

- | | |
|--|--|
| 1 <input type="checkbox"/> Negative impact on culture of open science | 2 <input type="checkbox"/> Negative impact on student/advisor relationship |
| 3 <input type="checkbox"/> Reduce the quantity and quality of basic research | 4 <input type="checkbox"/> Negative impact on curriculum |
| 5 <input type="checkbox"/> Academics could spend less time on teaching and serving | |

26. In your opinion, why would a faculty member start a partnership with an industrial partner? (please tick multiple if required)

- | | |
|---|---|
| 1 <input type="checkbox"/> To get funding for research assistants and new lab equipment | 2 <input type="checkbox"/> To have a field to test new theories and empirical equations |
| 3 <input type="checkbox"/> Acquiring practical knowledge useful for teaching | 4 <input type="checkbox"/> Student internships and job placement |
| 5 <input type="checkbox"/> Obtaining patentable inventions and business opportunities | 6 <input type="checkbox"/> Other (please specify) _____ |



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27. In your opinion, would you consider the IP rights over new research results to be a critical issue in university-industry partnership?

1 Yes 2 No

28. Does your university have a specialized center for establishing university-industry partnerships?

1 Yes 2 No

29. Would you support your university decision to establish a specialized center as a liaison between faculty members and industry?

1 Yes 2 No

30. In your opinion, what are the best ways to establish a partnership with the industry? (please tick multiple if required)

- 1 Travel to company site and give presentations to industry personnel
- 2 Give workshops at the industrial site, and inform the industrial personnel of new research methods
- 3 Going to conferences and publishing in journals
- 4 Being a member of a specialized center
- 5 Other (please specify) _____

31. Please state your opinion for the following statements [rate on a scale of 1-5, where 1=Totally disagree, 3=Neither agree nor disagree, 5= Strongly agree]

Statements					
1 Teaching and other administrative load prevents faculty from undertaking industrial projects	1	2	3	4	5
2 Academic researcher do not consider industrial collaboration as part of their job	1	2	3	4	5
3 Your university does not have enough laboratory facilities to support academic-industry partnerships	1	2	3	4	5
4 The University's geographic location is an obstacle in academic industry partnership	1	2	3	4	5
5 The University has clear procedures and processes in place to support Academia-Industry collaboration	1	2	3	4	5
6 Academics feel confident to undertake industrial projects	1	2	3	4	5



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32. Does your university involve staff from industry in teaching programs?

1 Yes 2 No

33. Does your university made it obligatory for Faculty to undertake a certain amount of work with industry as part of their job?

1 Yes 2 No

34. Does your university acknowledge the faculty members who get projects from the industry?

1 Yes 2 No

Part D: End of the questionnaire

Please state other comments/ observations/ proposals

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Thank you for your time and support in completing this questionnaire.

If you would like to receive a brief report of the survey results, please let us know your e-mail address:
