



aiiioi Survey For Industries

Part 1 – Industry General Information

1) **First, Last Name and function (of the person answering the survey)**

2) **Name of the Company**

3) **Company Commercial Operating Field**

Accelerating Structures-Normal Conducting
Accelerating Structures-Super Conducting
Waveguides and waveguides Components
High Power Systems (Klystrons, Modulators, Inductive Output Tubes,...)
Vacuum Chambers
Pumping Systems (Ion Pumps, Turbo-molecular,...)
Diagnostics
Normal Conducting Magnets
Super Conducting Magnets
Magnets Power Supplies
Cryogenic systems
Other specialized mechanical components for accelerators
Other specialized mechanical components for magnets
Electronics and instrumentation for accelerators
Electronics and instrumentation for magnets
Other : specify

4) **Other details on Company Operating Fields**

5) **What is the annual company % of turnover relative to the field of accelerator technology?**

6) **What is the annual company % of turnover relative to the field of magnet technology?**

7) **Number of Employees**

8) **Number of Employees (FTE) devoted to R&D**

9) Do/did you have collaborations/business/supply of components with these Institutes?

Commissariat à l'énergie atomique et aux énergies alternatives (CEA)
European Organization for Nuclear Research (CERN)
Stiftung Deutches Elektronen-Synchrotron Desy (DESY)
Istituto Nazionale Fisica Nucleare (INFN)
The Henryk Niewodniczanski Inst. of Nuclear Physics, Polish Acad. of Sciences (IFJ)
Centre National De La Recherche Scientifique (CNRS)
Science and Technology Facilities Council (STFC)
Uppsala Universitet (UU)
Paul Scherrer Institut (PSI)
Klsruher Institut fuer Technologie (KIT)
Other: specify

10) What kind of business/collaboration do/did you have with the mentioned Institutes?

Supply of standard/catalogue components for Institute
Development of custom components for Institute including design
Supply of build to print component for Institute
Purchase of special components from Institute
Use of Technical Platforms in the Institute
Research Collaboration
Licensing
Other: specify

Part 2 – Collaboration: Description, Results, Agreement

1) How was the collaboration with Institute established?

Public tender
Supply of standard/catalogue components for Institute
European project that foresaw a collaboration between Institute and the private Company
National funding that foresaw a collaboration between Institute and the private Company
Other: specify

2) Who is your contact in the Institute?

Commissariat à l'énergie atomique et aux énergies alternatives (CEA)
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The Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences (IFJ)
Centre National De La Recherche Scientifique (CNRS)
Science and Technology Facilities Council (STFC)
Uppsala Universitet (UU)
Paul Scherrer Institut (PSI)
Kalsruher Institut Fuer Technologie (KIT)
Other: specify

3) Among the interactions you had with Institute, what percentage was problematic?

4) In particular you had immediate interaction on

5) In particular you had problematic interaction on

6) During the past 10 years, did you collaborate with Institute in scientific publications, commercial products development, prototype development, patent requests? Please specify the number of collaborations you had in each of these fields

Publication
Patent
Prototype
Commercial Product

7) The commercial products you developed in collaboration with Institute were finalized to

Products of interest for the Institute only

Products for external market whose idea has been conceived by Institute

Products for external market whose idea has been conceived by the Company

8) What type of commercial products have you developed in collaboration with Institute?

Research Equipment

Medical products (e.g. diagnostics systems, etc...)

National security (e.g. X-ray scan systems)

Material treatment (e.g. sterilization,...)

Other: specify

9) Did the collaboration have the possibility to support qualified personnel like Ph.D. students, temporary contract researcher, technician, interns? If so, please indicate who paid for them:

10) Other comments on the social impact of Collaboration (e.g. after the collaboration the qualified personnel has been hired by the Industry, etc...)

11) In the framework of the collaboration, were there some training/education from the Institute to Industry personnel?

12) Has the training/education from the Institute to Industry personnel been useful?

13) In the framework of the collaboration, were there some training/education from the Industry to Institute personnel?

14) What training your company will be interested in ?

Superconducting radio frequency

Vacuum technology

Cryogenics technology

Superconducting magnet technology

Beam diagnostics

Other: specify

15) Would your company be interested in :

E-learning (MOOC)

On-line training (professor somewhere trainees at another location) for the theoretical part

Hands-on training

Other: specify

16) Within the collaboration, were there issues on Intellectual Property Rules and/or Patenting Rules?

17) If yes, was there a standard agreement model on Property Rules and/or Patenting Rules proposed by the Institute?

18) Were you satisfied with the proposed "agreement" with the Institute?

19) Were there particular problems/limitations during this phase? Or do you have suggestions in order to facilitate/to improve the "agreement" stipulation/management?

Part 3 – Access to Technological Facility of Research Institutes

1) Have you ever had the possibility to use/have access to Technological Facility of Institute?

2) What type of Technical Platform did you use?

Test beam facilities

Magnet manufacturing equipment

Magnet measurement equipment

Cryogenics plants

Radiofrequency cavity measurements

Chemistry, clean room and assembly halls

Characterization and measurement laboratories

Other : specify

3) How was the utility for the Industry?

4) How was the access to the equipment?

5) Do you have any suggestions in order to improve or facilitate the use of equipment of Institute

6) In the collaboration, has Institute personnel been involved?

Yes technician

Yes researcher

Yes but for the use of the Institute equipment only

No

Other: specify

7) Referring to the involvement of Institute personnel how was the utility for the Industry?

8) Referring to the Institute personnel, was it easy to involve them?

9) In case of not easy access to support from Institute personnel what were the main limitations

10) What was the time lapse from the request to the effective access to Technological Facility equipment or support from Institute personnel?

11) Is it suitable for the project timescale of your company?

Part 4 – Participation to Tenders and/or National/European funding Calls

- 1) Did you participate to a tender published by Institute?
- 2) Was the participation easy?
- 3) In case of difficult participation what were the issues?
 - Bureaucracy complications
 - Difficulties in submitting the documents
 - Difficulties to have clarifications on the tender
 - Other: specify
- 4) Did you ever participate to a National/Regional funded Call in collaboration with Institute? If yes Specify
- 5) How can you describe this experience?
- 6) Are the National/Regional funded Calls sufficiently promoted from the Institutions?
- 7) Are the National/Regional funded Calls sufficiently clear in their purpose and easy to submit?
- 8) Suggestions for enhancing the impact of National Call for Companies
- 9) Did you ever participate to a European Call in collaboration with some Institute? If Yes Specify
- 10) How can you describe this experience?
- 11) Are the European funded Calls sufficiently promoted from the Institutions?
- 12) Are the European funded Calls sufficiently clear in their purpose and easy to submit?
- 13) Suggestion for the improvement of the impact of European Call
- 14) Do you think Institute are well prepared in “Project Writing”?

Part 5 - The collaboration I wish!

1) Do you know the research activities and the available Technological Facilities of the Institute whom you collaborate with? (visit http://eu-amici.eu/technology_infrastructure)

2) How did you know them?

Seminars

Open day event

Personal relationship

Web Sites

Other: specify

3) Do you think the available information is satisfying?

4) In any case, what kind of information would be useful for you?

Available equipment

Available personnel profile

Details of Research projects

Other : specify

5) How would you like to have this information presented (website, dedicated meetings...)?

6) In particular, let us know if you would like to suggest improvement in the presentation on the AMICI website? (visit <http://eu-amici.eu/>)

Part 6 – The magnet technology market I wish!

- 1) Which segment of your market could benefit from the Technology Infrastructure?
- 2) What is the expected percentage growth in your segment of market, which could benefit from the Technology Infrastructure in 5 years?
- 3) What kind of magnet product or technological developments using the Technology Infrastructure are you expecting in the next 5 years?

Magnets for Research infrastructures

Magnets for health markets (new imaging systems and therapy)

Magnets for energy markets (production transportation and use)

Magnets for transportation (high speed trains, zero frictions conductor free cars, space crafts)

Magnets for scientific applications (high field , NMR, etc..)

Other: specify

- 4) Are you expecting new potential markets in magnet technologies applications, which could benefit from the Technology Infrastructure?
- 5) What potential breakthrough innovation translated into your market could be developed in the Technology Infrastructure or could be an application of technologies developed in the Technology Infrastructure?

- 6) What kind of Technical Platforms of the Research Laboratories would you like to use in the future for your magnet market development?

Characterization laboratories

Magnet winding and impregnation laboratories

Integration and assembly laboratories

Magnet Test stations

Other: specify

- 7) At which steps of your magnet product development could you/would you like to use Technological Facilities?

R&D

Proof-of-concept model

Prototyping

Series

Other: specify

- 8) What are the barriers to benefit from future collaborations with the Technology Infrastructure?

Access Cost

IP

Availability

Other: specify

9) What are the reasons which would make you preferably choose to use the Technical Platforms located at Research Laboratories or your own Technical Platforms ?