

PhD schemes that link industry and academia: A professional experience

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1. Topic: PhD schemes for the industry

2. Advantages

3. Disadvantages

4. Professional Experience

5. Conclusions

1. Topic: PhD schemes for the Industry

●Big question: Where to do the PhD once you finish the Master thesis?

- In a university?
- In a company?



●We will discuss about the pros and cons of carrying a PhD in a company.

- In Catalonia (Spain) there was a scheme called **TALENT EMPRESA** that linked academy and industry.
- The first call was in 2009. The scheme offered to companies a 3-years cofund to contract PhD candidates to find R&D solutions to enhance company developments.
 - **SO! THE TOPIC MUST BE INTERESTING FOR THE COMPANY**
 - It must be an interesting opportunity for the student.

In 2013: TALENT EMPRESA scheme



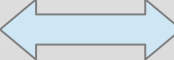
INDUSTRIAL DOCTORATES scheme

- Two thesis supervisors
 - Industry (fund\$)
 - University (fund\$)
- PhD using industry and university resources (infrastructures)
- Collaboration agreement company-university
- Fund\$ for mobility and training of the student


2. Advantages

- ✓ Research is market driven (applied research in real scenarios for the industry)
- ✓ Align state of the art to industrial needs.
- ✓ Mutual feedback between the research and industrial worlds.
- ✓ Resource availability.
- ✓ Results oriented daily work
- ✓ An increase of the experience in developing products, from a professional point of view.

3. Disadvantages

- Information and results are private. That means:
 - Few publications.
 - A confidential PhD dissertations
- Deadline driven
- Fast request of results.  PhD schemes focused on engineering sectors.

4. Professional Experience

- Useful to understand market needs
- Time to market is relevant!!
- Looking for commercial solutions  Interact with providers
- Importance of being part of a SME evolution.

5. Conclusions (I)

- Carrying the PhD in a industry provides you:
 - Professional experience as an R&D engineer.
 - Market knowledge & result oriented vision
 - Teamwork capacities
 - At the same time, the conducted experiments for the industry to improve/build a product are part of the Thesis.

5. Conclusions (II)

- Being part of a SME allows you to understand the internal operations of the company.
- **Once you finish the PhD you have professional experience in the industry!!!!**

Now which way would you choose? :)



Sharing research knowledge
to the Industry and working
for a results oriented team??



Working alone at the academia?