

EUA DOC-CAREERS 2nd WORKSHOP

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University / Business collaboration in doctoral programmes

at University Pierre et Marie Curie, Paris

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The aim of this workshop was phrased as : « to address the development of PhD programmes more oriented towards the industrial labour market than the traditional « research driven » doctoral programmes ».

- the question is not research-driven vs industrial labour market-driven :

R&D in industry ?

- employability opportunities of PhD holders are wider than research in academy and industry

- our challenge is to promote the value of PhD training and the vital role of PhD holders in developing the knowledge-based society, in any sector and any type of organisation

Outcomes of the 1st Doc-careers workshop:

- training *through* research allows the development of a set of transferable skills: creative thinking, problem solving, interpersonal skills, etc
- that are otherwise difficult to acquire and master
- that can not be mastered by only taking courses

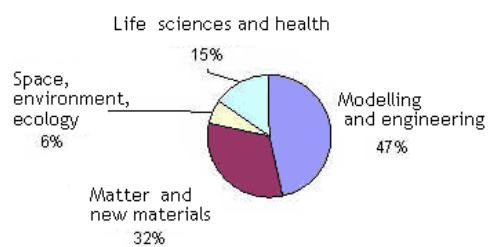
EUA DPP recommendations:

- structured doctoral programmes
- embedded in a high quality scientific environment ensured by a critical mass of strong research groups or scientific milieus
- allowing doctoral projects at the edge of knowledge and/or innovation
- under the supervision of a senior scientist

Joint PhD between university and companies: CIFRE, BDI and other corporate PhD funding

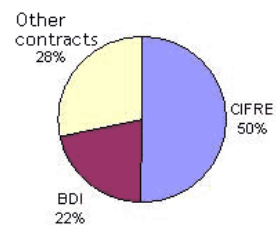
(> 300 among 3500 PhD candidates in 2005-2006)

distribution among research domains



2005-2006

distribution by type of industrial funding



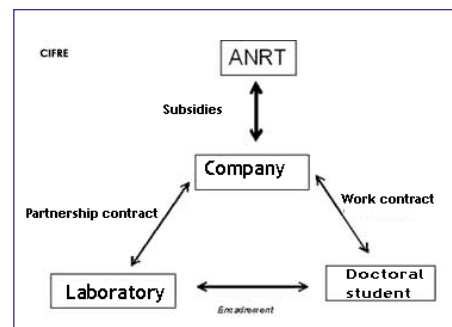
2005-2006

CIFRE: Industrial Agreement for Training through Research

BDI : « doctor-engineer » CNRS/company fellowship

CIFRE: Industrial Agreement for Training through Research

- a 36 months-long contract
- joint supervision
- shared time
- defining IP rights and duties



- the company receives subsidies (~ 70% of the annual gross salary) from the National Association For Technical Research (ANRT) on behalf of the Ministry of Higher Education
- the company may contribute to the running of the laboratory
- no specific programs, CIFRE PhD are enrolled in the same PhD programs as other PhD candidates

Outcomes of the 1st Doc-careers workshop (fwd):

Transferable skills are directly linked to the employability of PhD holders for academic and non-academic careers

PhD candidates, holders, supervisors and employers should have a high degree of awareness of the transferable skills acquired *during* a thesis run as a professional experience

PhD programmes should offer (*not impose*) a positive environment to develop transferable skills for *both* academic and non-academic careers

PhD programmes should provide a common core of processes and outcomes, without overcharging, and respect diversity and provide individualised training

University Pierre and Marie Curie

Scientific directory

Formation directory



Institute of Doctoral Training

House of Doctoral Schools

building of professional project
knowledge of job market,
training in personal
and managerial skills

PhD follow up database

20 Doctoral Schools

in partnership
with other
institutions

European and international
mobility and networks

Alumni association

3500 PhD candidates

UPMC doctoral policy

Developing awareness that doctorate is:

- a full-time professional experience
- a frontier research project in high quality research teams
- the elaboration of one's own career development plan

In support, IFD and HDS provide a continuing training plan:

- scientific deepening and open-mindedness
- knowledge of economy and job market
- skills analysis
- training in personal and managerial skills

Approval of individual plan and individual follow up by Doctoral Schools

UPMC continuing training plan

- series of seminars and specific workshops
- lecturing and case-study by professionals and UPMC alumni

4. Knowledge of organisations
and their environment

6. Communication and
management

5. Innovation and transfer

7. Professional project
and career development

by the House of Doctoral Schools

with UPMC DRITT*,
Agoranov incubator,
partner institutions

HDS staff
with consultants

*direction of industrial relations
and technology transfer

UPMC continuing training plan

Knowledge of organisations and their environment

- organisation, social, financial, legal, regulation aspects
job opportunities and career development
- for each type of organisation (companies, SMEs, start-ups; NGOs; public administration; academy; in France and in Europe; etc)
- case studies and on site visits

Innovation and transfer

- intellectual property and industrial property; patent
- innovative entrepreneurship; business set up
- Doctoriales®: residential seminar on innovation, with CEA

UPMC continuing training plan

Communication and management

- institutional and interpersonal communication
- team working and networking
- training in managerial skills
- knowledge diffusion

Professional project and career development

- project running
- skill analysis
- knowledge of the job market
- job seeking technics

Individual counselling and coaching

Developing awareness on transferable skills, on job opportunities and on the new organisation of doctoral training

of supervisors

- « habilitation à diriger les recherches » only based on research criteria
- a European seminar on the new vision of Doctorate
- workshop # 1 on job opportunities and career development for PhD holders
- workshop # 2 on doctoral project management

of employers

- developing partnership, lecturing and case study in our workshops
- meetings, round tables with top managers and recruiters
- targets ? where are jobs ?

University / Business collaboration in doctoral programmes

The challenge for Universities:

Promote the value of PhD training and the vital role of PhD holders in a knowledge-based society

Implement the new vision of Doctorate including raising of awareness of embedded transferable skills