Course « Skills for Company »

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Assessment on the professional integration of doctors

Registration of the doctorate level in the National Directory of Professional Certification (RNCP) in November 2017 to promote the recruitment of PhDs by companies

### Distribution of Ph.D holders in active situation by employer

- Fonction publique (d'Etat, territoriale ou hospitalière, de l'EU) 28%
- Entreprise privée 10%
- Entreprise publique (La Poste, SNCF, EDF, France télévision) 3%
- Association ou organisme à but non lucratif 3%
- Autre 1%
- Institution internationale (OCDE, Commission européenne, ONU, OMS, FMI) 1%
- Vous-même (indépendant, autoentrepreneur, profession libérale, freelance) 3%
- Une société d’économie mixte 1%

**UdL survey, 216 doctors in SE class of 2018**

### Distribution of Ph.D holders by socio-professional category

<table>
<thead>
<tr>
<th>Socio-professional Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entreprise privée</td>
<td>76</td>
</tr>
<tr>
<td>Entreprise publique</td>
<td>118</td>
</tr>
<tr>
<td>Fonction publique</td>
<td>11</td>
</tr>
<tr>
<td>Institution internationale</td>
<td>10</td>
</tr>
<tr>
<td>Vous-même</td>
<td>2</td>
</tr>
<tr>
<td>Une société d’économie mixte</td>
<td>1</td>
</tr>
<tr>
<td>ONU, OMS, FMI</td>
<td>1</td>
</tr>
<tr>
<td>Profession intermédiaire</td>
<td>1</td>
</tr>
<tr>
<td>Cadre administratif et juridique</td>
<td>1</td>
</tr>
<tr>
<td>Chef d’entreprise</td>
<td>1</td>
</tr>
<tr>
<td>Cadre de la fonction publique</td>
<td>1</td>
</tr>
<tr>
<td>Cadre techniques d’entreprise</td>
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<tr>
<td>Cadre de la fonction publique</td>
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<tr>
<td>Cadre techniques d’entreprise</td>
<td>1</td>
</tr>
<tr>
<td>Professeurs de l’enseignement supérieur</td>
<td>1</td>
</tr>
</tbody>
</table>
Why CPE courses?

• Created in 2011 by the CDEFI, these CPE courses aim to provide doctoral students with a certain number of skills expected by companies and defined within a reference system established by the CDEFI.

• These courses permit obtaining a 'Skills For Business' certification for doctoral students from hosting institutions.

• The CPE label is a quality assessment certifying the relevance of training with regard to the skills expected by companies (16 skills divided into 4 blocks).
The objectives of the CPE cursus

- **Strengthen the visibility** of the professional value of doctoral training;

- **Give companies a better vision of the skills** acquired by PhDs during their training;

- **Encourage better dialogue and mutual knowledge** between companies and doctoral students;

- **Improve the professional integration of PhDs in the private sector in France.**
The contents of the CPE courses

- **A 70-hour 'theoretical' training**
  - Intellectual property, management, project management;
  - Entrepreneurship, ethics, project financing;
  - English course (B2 or TOEIC), writing reports or patents in French;
  - …

- **An experience 'with or in' a company for at least 30 hours**
CPE course

Lyon-Saint-Étienne Engineering College

Label obtained for 3 years, Sept. 2022- August 2025
• **70-hour 'theoretical' training**

  - **15h on research ethics (mandatory training)** - English version preferred

  - **55h of trainings, capitalizing on the large panel existing in the UdL catalog**

  ✓ B2-2 Management: know-how and interpersonal skills - 21H
  ✓ B2-3 Project management applied to thesis work - 14H
  ✓ B3-1 Speaking in front of a group: expression techniques and speech management - 21H
  ✓ …

**Transversal skills**

**Job prospects and job search**

✓ C1-7 Design and facilitate a training action - 21H
✓ C2-3 PhD workshop for entrepreneurship and innovation - feedback from entrepreneurs
✓ …
CPE model

- **Experience 'with or in' a company for 30 hours minimum**

Based on:

- The network of the supervisors through the expertise missions associated with the doctorate

- Some specific training related to companies in the UdL catalogue
  - **C10 Doctoriales**: PhD students' seminar at the service of business innovation
    21H *(Thinking on topics submitted by actors of the socio-economic world and on real problem)*
  - **B30 Innovation Academy**: Training by action to develop innovative projects
    50h *(develop an innovative idea, teamwork, economic reality, project management, network, communication…)*

- Networks of institutions (valorization structures, etc.)
  - **EXPL'AURABootcam**: innovation training with practical workshops, development of the first hypotheses of the project with experts, study of the challenges of the economic world, Business model, intellectual property, value creation, pitch, etc.
CPE implementation and follow-up

- **Selection by a committee made of 1 representative per institution and per ED**
  - Application with description of professional project (cover letter, CV) in D1 and D2
  - Letter of commitment from the Thesis Director
  - Mediation criterion: 'Distance' from the subject/context of the thesis and the course in relation to the industrial world

- **Follow-up**
  - Annual Meeting
    - Support of Individual Monitoring Committees (verification of trainings)
    - (Re)assessment of professional objectives and project
  - Post-cursus
    - Alumni network (support for missions in company, coaching…)
    - Satisfaction and placement surveys

- **Valorization**
  - Certificate 'Skills for Companies' recognized at the national level and appealing to companies (awarded by a committee composed of 50% representatives of industry and 50% representatives of academia)
Thank you for your attention

Questions, remarks,…?
CALENDAR

- Janvier: Académie de l'innovation
- Avr.: Maîtrise en 180° - Finale
- Avr.: Académie de l'innovation: Challenge final
- Mai: Les Doctoriales
- Juin: Ateliers transfrontaliers
- Sept.: salon international
- Oct.: Enquête Avenir des doctorants
- Nov.: CUGAE

Les doctoriales
Doctorant - conseil
Académie de l'innovation
INNOVATION ACADEMY
From January to May

🎉 An action learning in order to live a real experience of project development from an innovative idea.

- Proposed by UdL, Pulsalys, SATT of Lyon Saint-Etienne.

- **Work in project configuration and with interdisciplinary teams** (4 persons max) during 3 days.

- **Innovative ideas**: a new product or service, social and environmental innovation project...

- **Final challenge** organised to reward the best project.
A challenge to create links between Ph.D candidates and private/public firms.

- An action learning with interdisciplinary teams which propose a new glance on real cases submitted by firms.
- Various topics: technologic, strategic, organisational, international, etc.
CERTIFICAT
« Compétences pour l'entreprise »
associé au grade de Docteur

Avec le soutien du ministère de l'Enseignement supérieur, de la recherche et de l'innovation

Le directeur de (école d'ingénieurs) décerne à M./Mme (doctorant) le certificat « Compétences pour l'entreprise » associé au grade de Docteur délivré par l'université ou école, en reconnaissance de son parcours doctoral effectué au sein de l'école doctorale.

Le présent document certifie la validation des compétences issues du référentiel national conçu par la Conférence des directeurs des écoles françaises d'ingénieurs et leurs partenaires des milieux socio-économique et académique.

Le jury qui a validé les compétences pour l'entreprise de M./Mme (doctorant) le (date du jury) était composé des membres académiques et industriels suivants : (liste des membres du jury)

M. 
Mme.

M. 
Mme.

Le directeur/la directrice de l'école d'ingénieurs
(logo de l'école)

Le directeur/la directrice de l'école doctorale
(logo de l'école)