



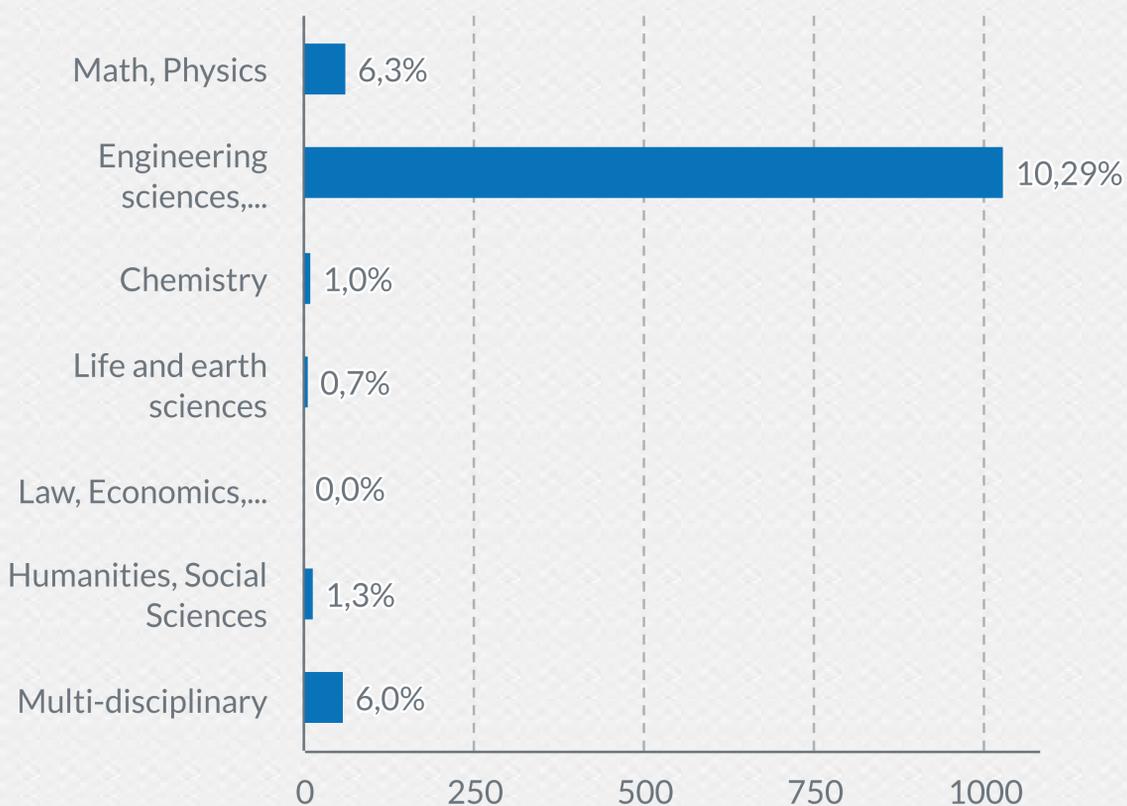
The CAREER project has highlighted the adequacy between the skills developed by PhDs and the skills needed by employers.

PhDs working in information technology hold positions related to programming, analysis and management.

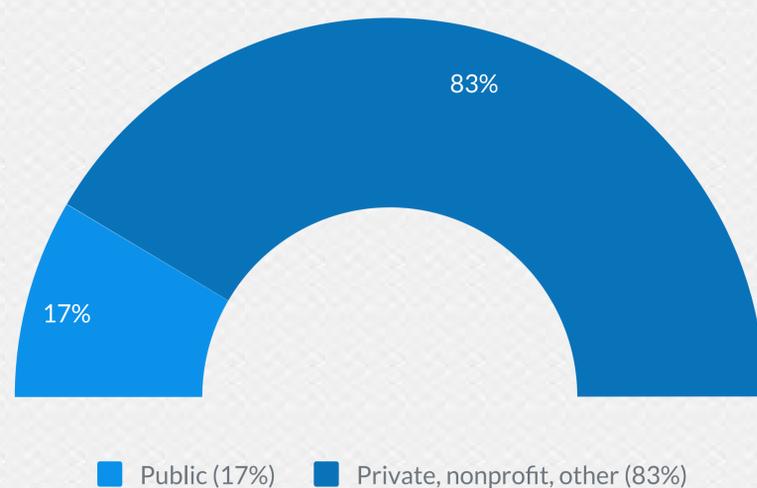
**Positions mentioned by respondents:**

- Developer
- Project manager
- Analyst
- Computer engineer
- IT and Technical Director
- Computing center manager

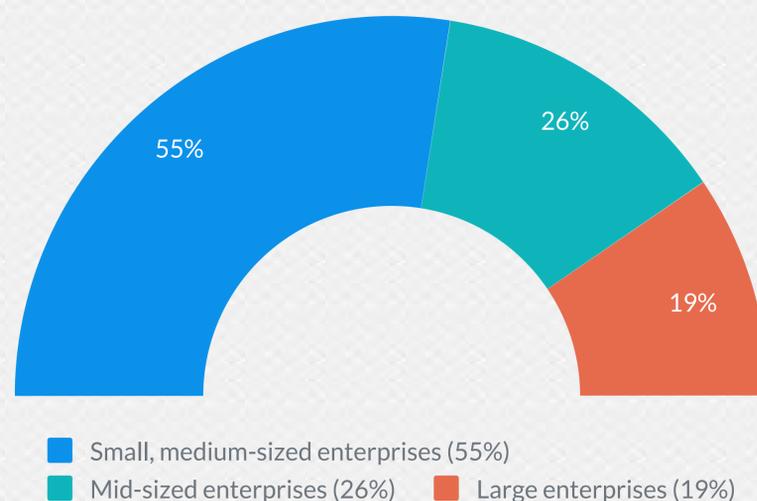
**PhD distribution in IT jobs by research discipline**



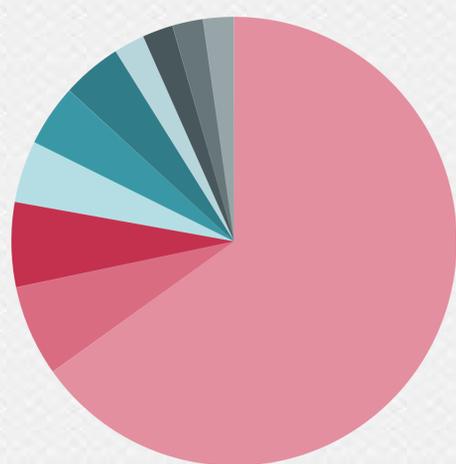
**Organization type**



**Organization size (number of employees)**



**Sector of activity**



- Programming, consulting and other computer activities (65.14%)
- Teaching (6.57%)
- Scientific research and development (6.1%)
- Head office activities; boards of directors (4.46%)
- Publishing (4.46%)
- Information services (4.34%)
- Activities auxiliary to financial services and insurance (2.23%)
- Architectural and engineering activities (2.23%)
- Sale and repair of motor vehicles and motorcycles (2.23%)
- Manufacture of other transport equipment (2.23%)

**Key competencies**



## IT JOBS



## Dr Didier Colin Chief Technology Officer at Mailforgood

### 1/ Role and responsibilities

Involved in the Mailforgood project as CTO, my role is to manage the development of this platform which supports the non-profit sector, by matching the technical means and practices with the company's strategy and objectives. In addition, I am responsible for instilling in the technical team a sense of innovation and a culture of growth oriented towards sustainable practices that are in line with technological developments. My work activities include:

- Designing and developing the platform,
- coordinating the development team,
- participating in elaborating the strategic vision and its articulation with technical resources,
- managing technical partnerships with our partners, which include start-ups and large companies.

### 2/ Competencies used

As a senior role in a start-up environment, this position requires a high level of flexibility and reactivity. Indeed, the essence of web start-ups is their ability to reinvent themselves and to make their business evolve according to the way their business model reacts to the reality of the market on the one hand, and to the changing possibilities in the technical field on the other. This translates into agility requirements, both in terms of business and methodologies. Working in this environment also means being guided by an ambitious project driven by limited resources.

This implies the need for a certain pragmatism, and to sometimes go outside one's field of competence to tackle and solve problems as they arise.

### 3/ Benefits of a PhD

My PhD background translates directly into my work through a rigorous analytical approach as well as a tendency to approach problems holistically, putting them in perspective and articulating them in a broader context. For example, a large part of a researcher's work consists in training their curiosity, taking inspiration from realities belonging to very different domains, to extract solutions that can be applied elsewhere; just like the genetic algorithms used in computer science to automatically find solutions to complex problems, whose operation is directly inspired by natural selection. This ability to open up to other disciplines and to search for serendipity is very valuable in the field of innovation.

Resituating a problem in a wider context can also be done vertically, through knowledge of its general framework, of the fundamentals on which it is based, and of the state of the art; in other words, using one's scientific culture before rushing headlong into a solution that has perhaps already been thought of, or that is not optimal. This translates directly into time and efficiency gains on a large number of technical issues.

#### Mini-CV

##### 2009

PhD in Computer Science -  
Université de Versailles  
Saint-Quentin en Yvelines

##### 2009-2010

Temporary Study and Research  
Assistant - Université de Reims  
Champagne-Ardenne

##### 2010-2011

Developer/game designer -  
Anima Games SAS

##### 2011

CTO  
Mailforgood

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