



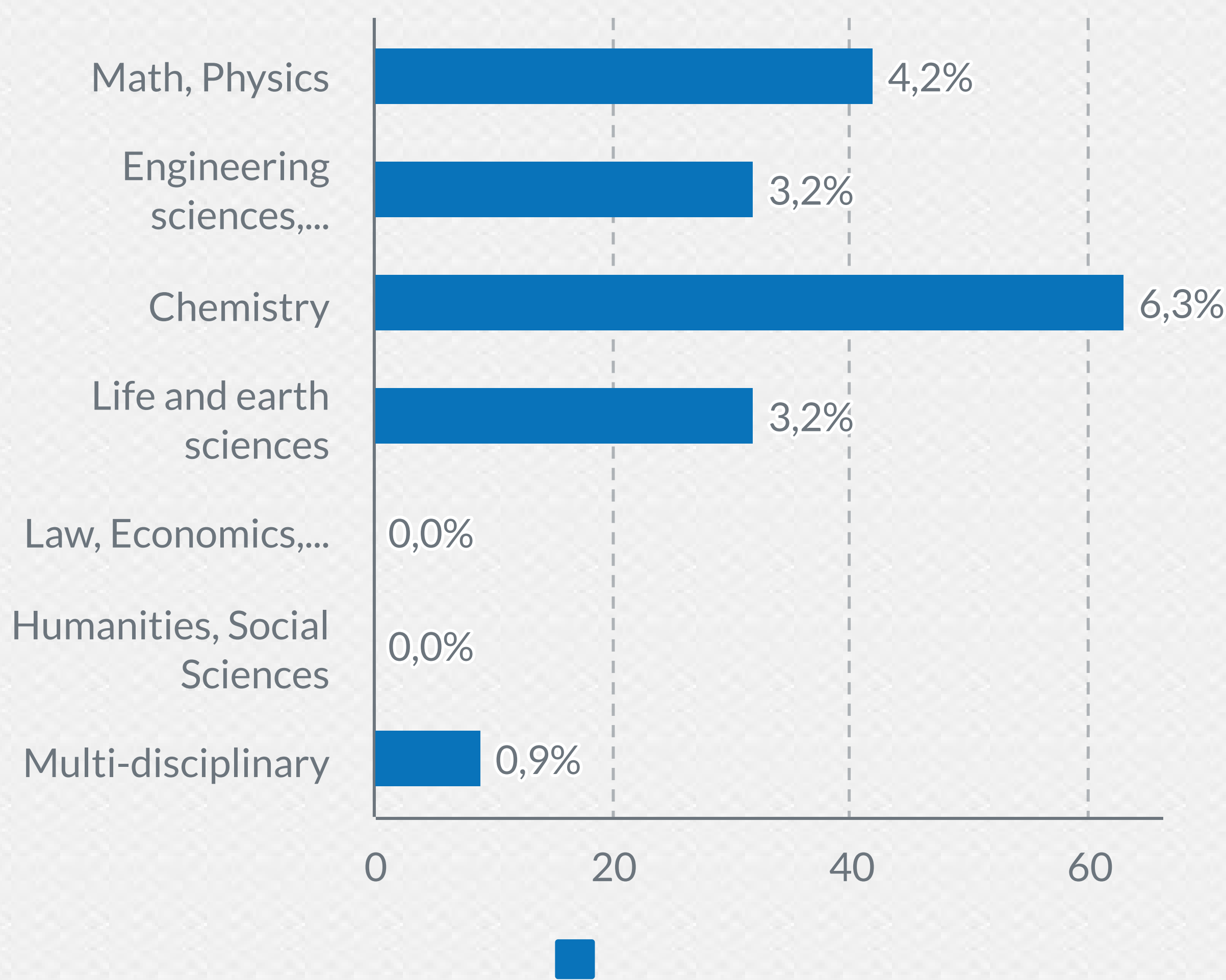
The CAREER project has highlighted the adequacy between the skills developed by PhDs and the skills needed by employers.

The majority of PhDs working in production occupy technical, operational positions in various sectors of activity.

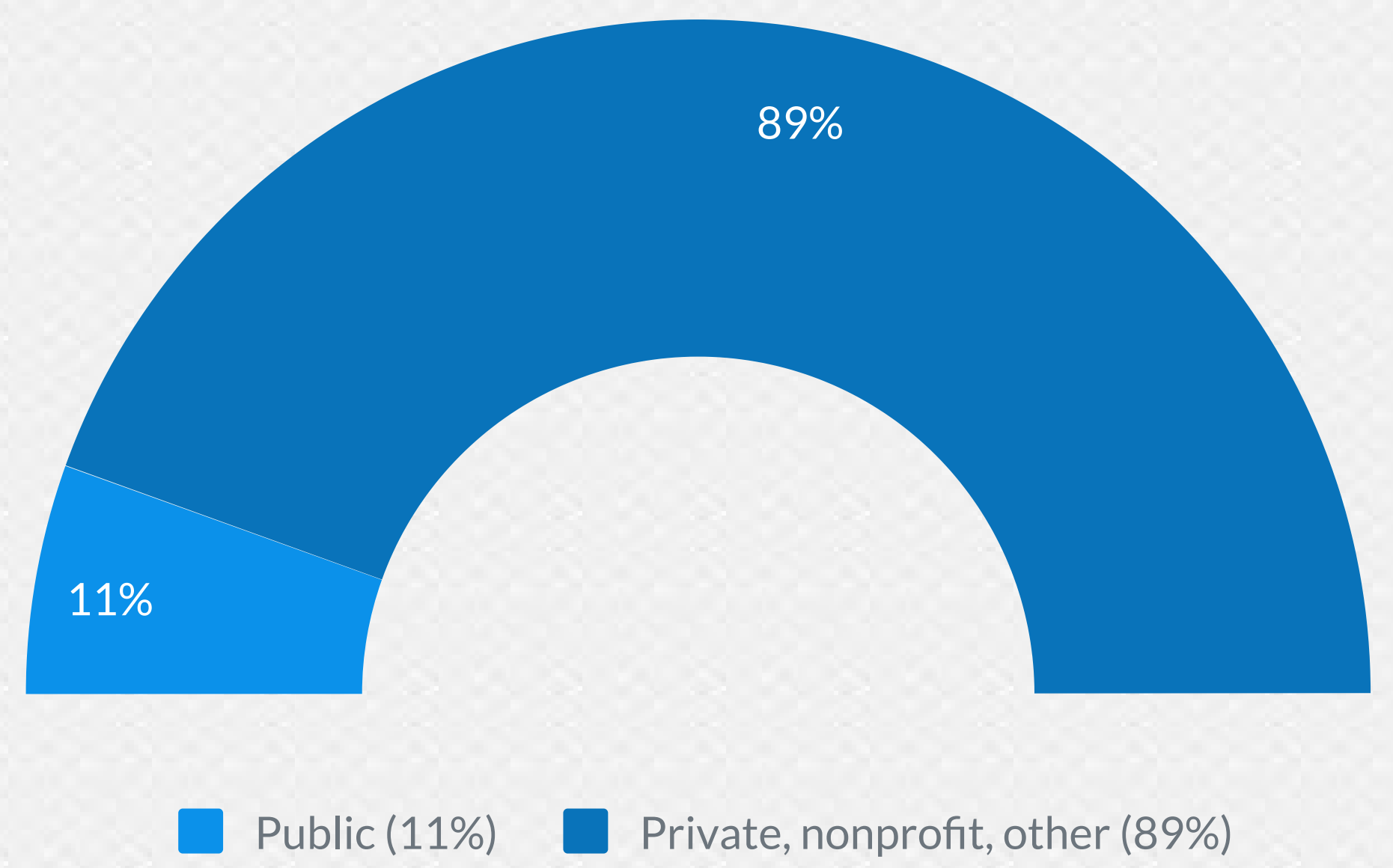
Positions mentioned by respondents:

- Engineer
- Project manager
- Lab manager
- Performance Manager
- Supply Chain Director
- Quality Assurance Manager

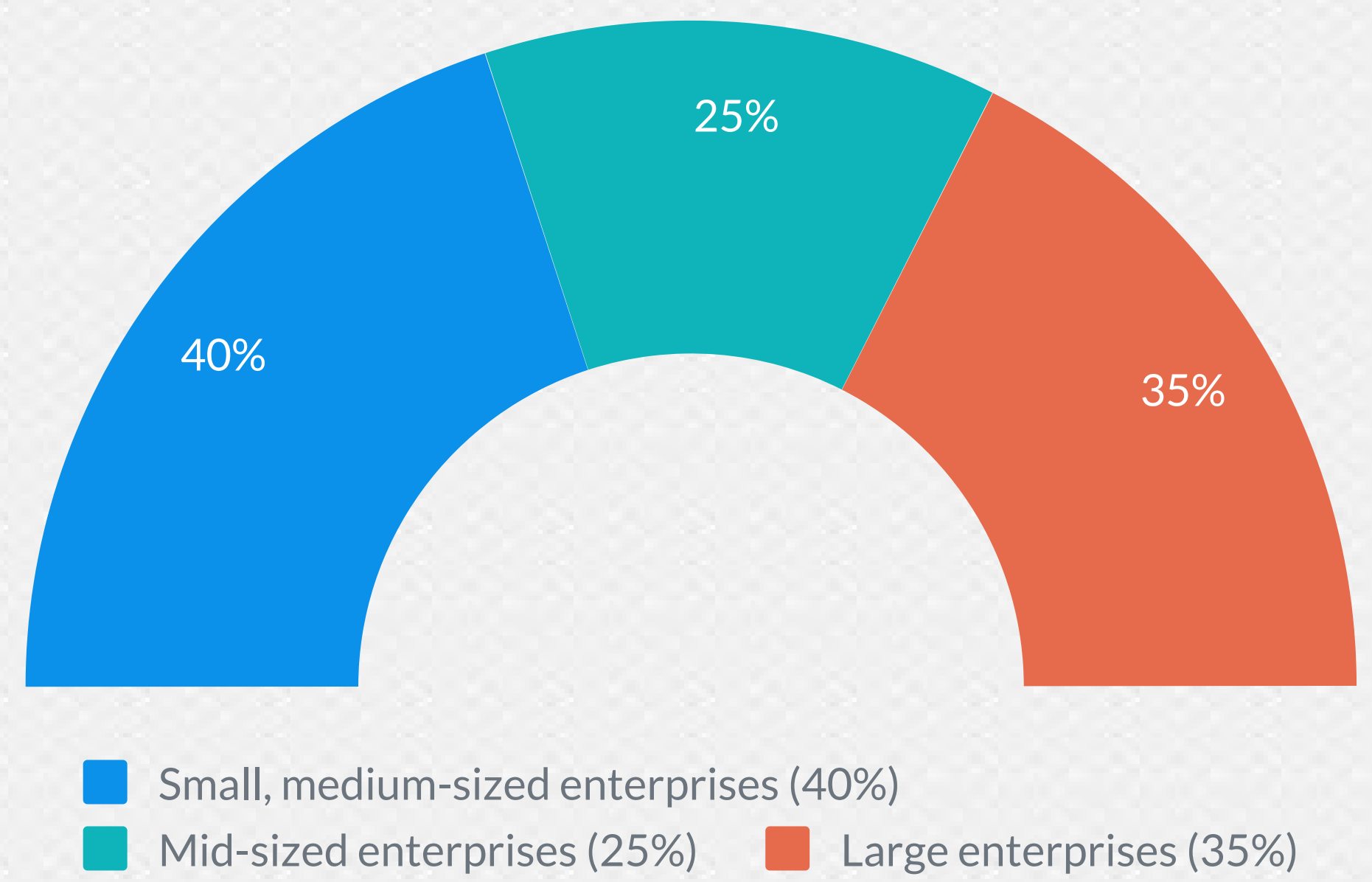
PhD distribution in production jobs by research discipline



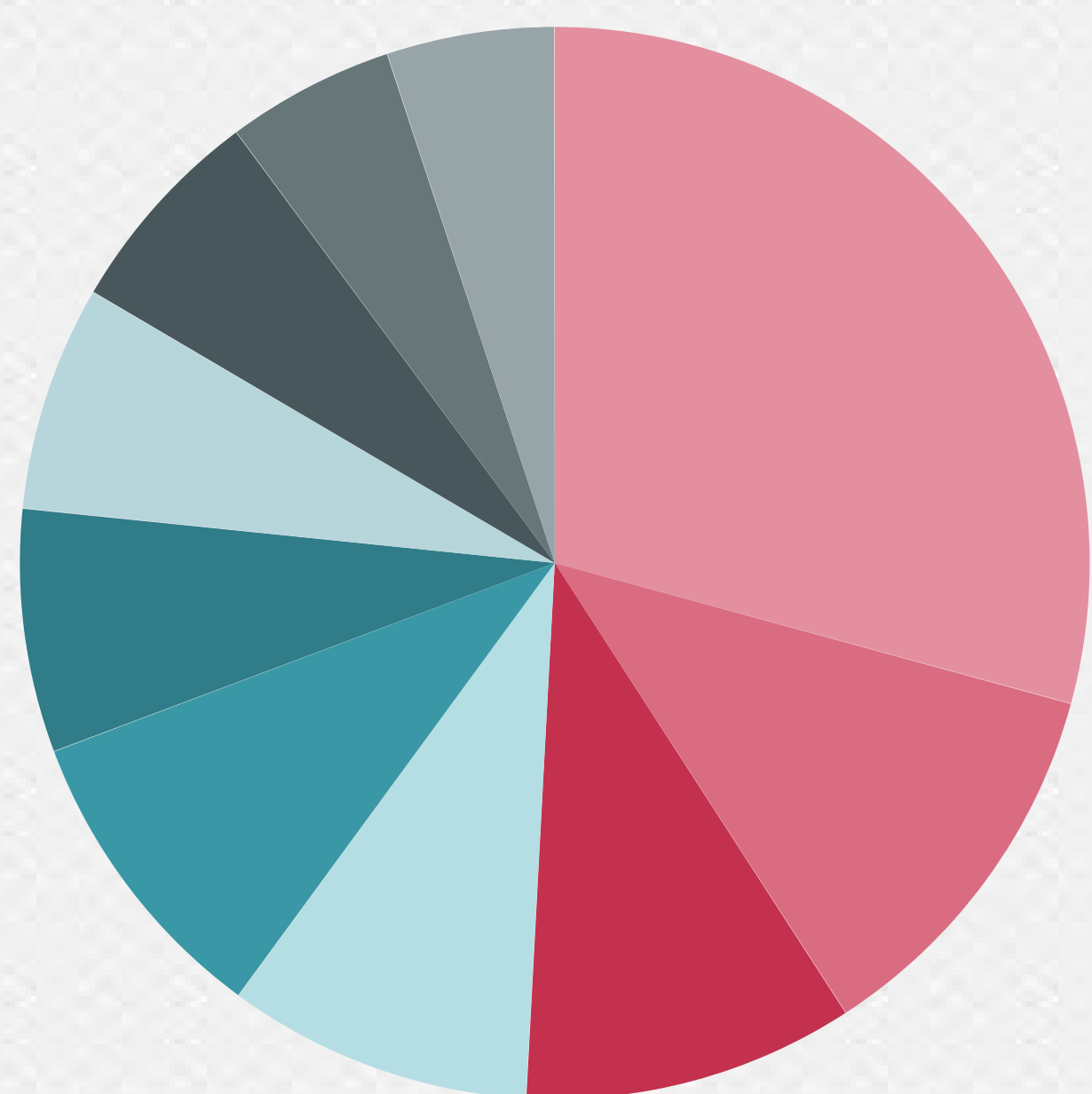
Organization type



Organization size (number of employees)

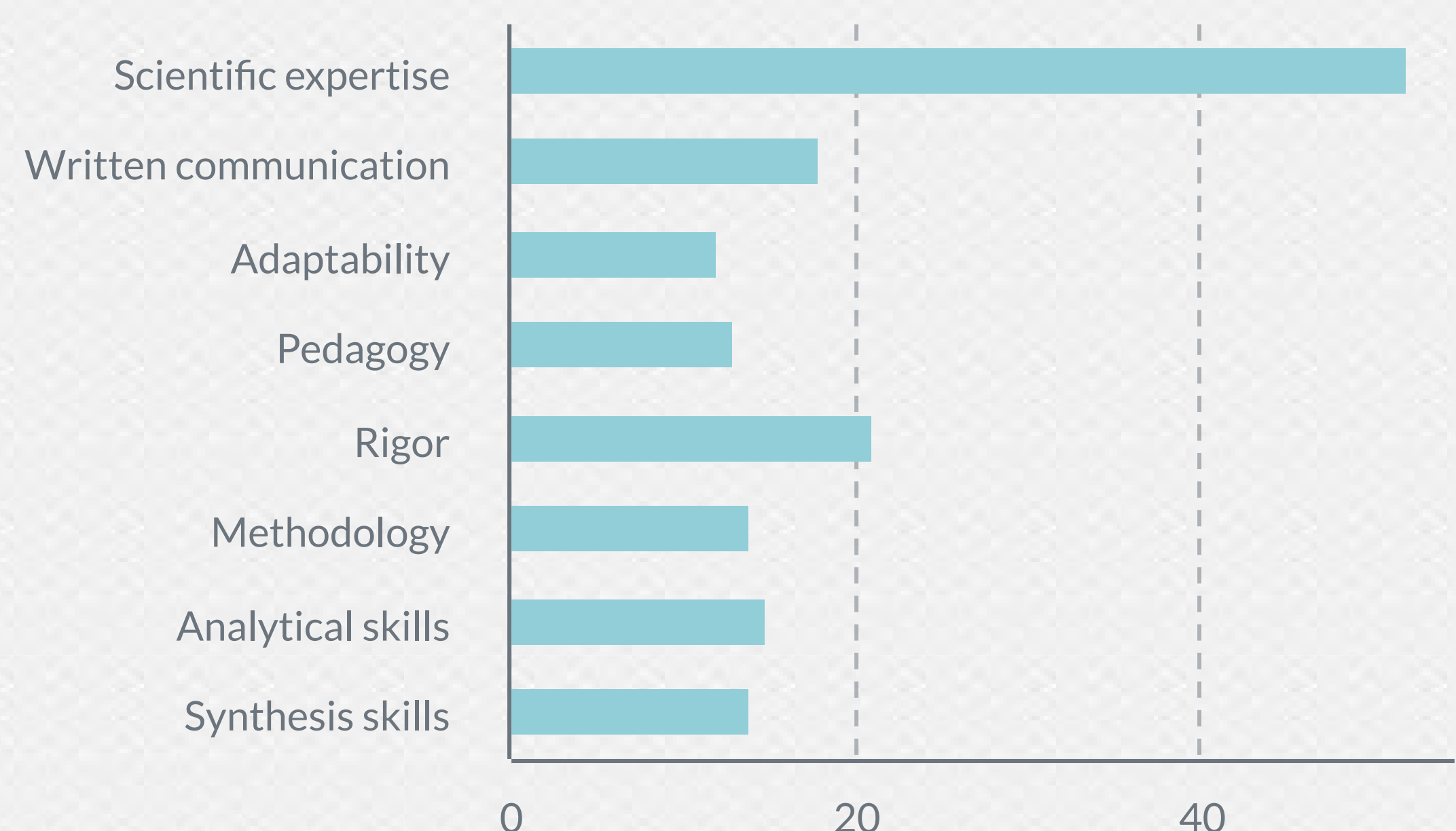


Sector of activity



- Architectural and engineering activities (29.24%)
- Pharmaceutical industry (11.62%)
- Chemical industry (10.01%)
- Scientific research and development (9.21%)
- Manufacture of other transport equipment (9.21%)
- Human health activities (7.34%)
- Metallurgy (6.81%)
- Computer product manufacturing (6.41%)
- Oil and gas extraction (5.07%)
- Land and pipeline transportation (5.07%)

Key competencies



PRODUCTION JOBS



Dr Guillaume Deplaine Quality control and development manager Analytical methods for Theravectys

1/ Role and responsibilities

I work at THERAVECTYS, a biotechnology company focused on the development of a new generation of vaccines based on lentiviral vector technology. The vaccine platform based on this technology should make it possible to prevent or treat effectively many diseases against which the induction of a cellular immune response is necessary (infectious, bacterial, parasitic diseases, cancers). The first therapeutic vaccine developed by THERAVECTYS against HIV entered a phase I/II clinical trial at the end of 2012. In this context, my role is to assess and qualify the pilot batches of vector particles produced by the Production Platform. On the other hand, I have to ensure the development, the validation, the implementation within the company, as well as the technological transfer of all the analytical methods aimed at ensuring the characterization and the quality of the batches produced. In addition to this technical part, I am in charge of writing the specifications, the validation files of the analytical methods and the related procedures.

2/ Competencies used

To hold a position such as mine, you need to be autonomous, as Quality Control is independent of the R&D and Production divisions. You also have to be rigorous in order to identify, on the basis of the Quality Controls in place, the batches that strictly meet the specifications

It is also necessary to be versatile in order to propose adapted, applicable and compliant quality controls, while ensuring a relevant scientific watch. Consequently, knowledge of Good Labo Practices, Manufacturing and European regulations is, by definition, required for this position. It is also important to be able to synthesize and write procedures clearly when carrying out technology transfers to subcontractors.

3/ Benefits of a PhD

Having a PhD has above all allowed me to master concepts and techniques of molecular biology, that are necessary for developing the projects developed by THERAVECTYS and the Quality Control processes related to them. My doctoral program taught me to develop research methods that allow me to gain perspective quickly on the projects. It also gave me the practical and operational skills that I apply daily in my job to develop hypotheses, techniques and methodologies to address complex and well-defined problems. I would also say that my PhD experience gave me a certain versatility which is particularly appreciated when you join a start-up. The skills acquired during my PhD help me bring a real expertise to the different innovative projects led by the company THERAVECTYS.

Mini-CV

2009

PhD in Molecular and Cellular Biology

2009-2010

Postdoc - Pr Debré's UMR / Pitié-Salpêtrière

2010-2012

Project Manager - Genewave

2012

Quality control and development manager Analytical methods- Theravectys

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