



High-level monitoring of international scientific and technological developments

The ability to effectively monitor scientific and technological developments is an important asset for many R&D organisations, whether public or private. This means constantly keeping up with and managing the latest advances and proactively considering ways to propose opportunities for innovation.

RNCP

HIGH-LEVEL MONITORING OF INTERNATIONAL SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENTS

- Acquire, synthesise and analyse cutting-edge scientific and technological data and information on an international scale while developing a critical and detached perspective
- Go beyond the boundaries of available data and knowledge by cross-referencing them with different fields of knowledge or other professional sectors
- Build international networks for scientific and professional cooperation
- **Develop and maintain a high level of scientific culture** along with the necessary curiosity, adaptability and openness
- Make informed, critical and ethical use of new ways of producing knowledge, aided notably by artificial intelligence

Examples of competencies

- Collect information in a scientific way (rigorous, representative of research, with the
 necessary critical distance and without being overwhelmed by the vast amount of data
 available) on any topic, and keep it up to date
- Set aside part of your working time to monitor relevant literature; Identify necessary training
- · Use recent data to develop your expertise
- Identify what works well in another project or a competitor's proposal and use these
 aspects for inspiration, without violating intellectual property rights; Identify your own
 advantages in relation to another project and explain them in an appropriate suitable
 way for the person you are addressing
- SER: monitor and critically reflect on SER issues related to the available knowledge and the societal and environmental impacts of R&D activities
- Soft skills: curiosity and openness; positive attitude about how to advance; ability to work autonomously

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TO HELP GET YOU THINKING

For each competency you feel you have developed:

- · Would you say that you have simply been introduced to it (you have heard about X), or that you have achieved proficiency (you are able to do it), or an advanced level (you could pass on this competency and train someone)? Explain fully, with factual details to support your assessment.
- · Based on a professional situation/situations you've experienced, explain in detail
- How this situation helped you develop this competency (provide factual details, evidence)
- What you found easy/difficult; did you need help? For what, precisely, and would you still need help today?
- Were you the leader, or did you follow others, and to what extent?
- How would you discuss this competency and these examples with people outside of academia (friends or recruiters) in a convincing way? What would you highlight?

▲ What examples of professional situations can you provide?

- Have you carried out a form of literature/ bibliographical monitoring during your PhD?
 How? Did you include very recent contributions based on ongoing research?
- Have you identified the major sources in your field (cutting-edge researchers, laboratories or journals)? Has this helped you learn and progress?
- Have you identified gaps in your field that have led you to step outside of the boundaries of your discipline?
- Have you identified the main disciplinary and transdisciplinary forums for discussion, trade shows and other professional communities that are helpful for your project?
- Have you taken part in multidisciplinary collaborations or projects related to SER?
- Have you created or grown your professional network (within or outside your research project partners)? Have you completed a research residency in ano-ther laboratory? Are you a member of a learned society? Do you share your CV?

▲ Have you completed training that has helped you strengthen your competency in this area? If so, how?

- Think about training courses completed through the College, offered or recognised by the Doctoral School or in-house training offered by your laboratory or employer
- Explain; see the course catalogue for the College and your Doctoral School

TO HELP YOU PREPARE YOUR REGULAR ASSESSMENT FOR THIS AREA

- → Identify a strength you have acquired this year
- → Identify an area you would like to improve over the coming year and how you plan to do so (training, activities etc.)