

B1



Design and development of a research, R&D and innovation strategy

This expertise is important for employers: it implies strong knowledge in your speciality field and, on a broader level, the ability to seek out various information sources, identify points of contention, break down a complex problem and provide a summary/hierarchical argument. It implies adapting to an objective and to your audience, and evolves over time.

RNCP

DESIGN AND DEVELOPMENT OF A RESEARCH, R&D AND INNOVATION STRATEGY

- **Possess both general and specific scientific expertise** in a given field of research and work
- **Develop a research question** (problem posed, state of the art, identification of obstacles, planning of the research strategy)
- **Engage in reflexivity and critical thinking** in the different stages and activities
- **Take stock of the state and limits of knowledge and practices** within a given sector of activity, at local, national and international levels
- **Identify mechanisms to solve complex and new problems** involving multiple domains, using the most advanced knowledge and expertise
- **Identify potential for conceptual breakthroughs** and, where appropriate, devise innovative approaches for a professional sector
- **Identify the players involved in a given sector of activity** and situate their questions and approaches within this system of players
- **Comply with the rules of professional conduct and ethics** in relation to the integrity of work and the potential impacts on societies and planets

Examples of competencies

- Develop a concise, representative state of the art/bibliography on a topic, taking into account the timetable, objective and intended audience
- Identify different approaches and their limitations, and situate your personal expertise
- Describe your personal contribution (incremental or breakthrough approach)
- Choose a rigorous scientific methodology and explain your choice
- Identify a need for training or collaboration to overcome an obstacle
- **SER**: identify issues related to combating climate change and environmental protection and propose innovative solutions
- **Soft skills**: curiosity, ability to break with existing methods to propose an innovative approach, ability to adapt (understand and effectively respond to a need)



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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 prepared a bibliography? Written a state of the art for your thesis, or for a paper or publication?
- Have you written a thesis topic? Responded to a call for projects? Designed a strict scientific protocol from scratch to test your hypotheses?
- Is your thesis topic directly related to a social or environmental responsibility issue? If not, does it take these issues into account?
- Have you had the opportunity to explain your field of expertise to people with varying degrees of expertise (e.g. at a break during a symposium or with friends), and explain why it is useful?
- Have you had the opportunity to position your research in relation to other specialists in the field, and identify innovative aspects? (e.g. abstract, paper, publication; work within a team)
- Have you identified the main forums for discussion in France and internationally?
- Other

▲ 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.)