**Knowledge and Intellectual Capacities**

Knowledge in Area of Specialization | Creative Thinking | Problem Solving | Critical Thinking | Quantitative Literacy | Information Literacy

- Synthesize and critically evaluate scholarly literature and data to fill gaps in knowledge and make informed decisions.
- Integrate concepts and ideas from other disciplines into my area of research.
- Accurately interpret and analyze different forms of evidence for the purpose of constructing well-reasoned conclusions and predict implications.
- Draw sound evidence-based conclusions from their research, and the research of others, based on best practices that recognize scope for potential uncertainty arising from underlying assumptions, alternative interpretations, and gaps in knowledge.
- Evaluate, integrate, and apply appropriate information from various sources to create cohesive, persuasive and logical arguments and conclusions.
- Demonstrate mastery of theoretical, mathematical, numerical and experimental techniques needed for their research plan.
- Operate and maintain complex pieces of lab equipment or code, and help others achieve the same level of proficiency.

**Research-Focused /Practice oriented**

Foundations for Lifelong Learning | Application of Knowledge | Knowledge Creation and Dissemination | Inquiry and Analysis

- Define a research question or issue in the field and devise a plan for investigating it using appropriate approaches to inquiry.
- Frame appropriate questions to investigate critical issues in the field through advanced, high quality and original independent research.
- Use appropriate research methodologies and critically evaluate scientific literature and data to fill gaps in knowledge.
- Apply appropriate methodologies and frameworks to investigate practical problems in an organization and produce a solution or solutions acceptable to the organization.
- Examine different approaches and models to be able to determine best practices (or high impact practices) and establish actionable strategies.
- Conduct self-driven, independent research on an applied problem in the field, including an evaluation of limitations as well as proposing promising avenues for future research.
- Conceptualize, design and implement research to generate new knowledge, learnings, and understandings.

**Leadership**

Initiative and persistence | Nurturing self and others | Integrity and social responsibility

- Involve key stakeholders to build and sustain consensus, resolve problems and make decisions in a collaborative process.
- Demonstrate leadership skills in working with peers and/or mentoring trainees in the achievement of a specific task with specific boundaries.
Interpersonal Capacities

Collaboration | Oral and written communication

- Collaborate effectively and respectfully with peers and key stakeholders to enable knowledge exchange and productive engagement.
- Build knowledge collaboratively by: listening carefully and respectfully to others’ viewpoints; articulating your own ideas and questions clearly; and situating your own ideas in relation to other voices, ideas and viewpoints.
- Clearly and confidently communicate information, ideas, research outcomes in an oral, written and visual format to a range of audiences.
- Effectively communicate across settings, purposes, and audiences.

Personal Capacities

Self-management | Disposition to improve | Ethical reasoning | Respecting diverse ways of knowing

- Employ intellectual independence to actively engage in continuing professional development and to adapt to changing social and professional contexts.
- Use appropriate guidelines and procedures for research ethics and academic integrity and articulate how these apply in a range of academic and non-academic contexts.
- Articulate personal strengths and identify areas for further development.
- Exercise self-awareness and self-regulation in decision-making, interacting with others and adapting to changing circumstances.
- Employ ethical, responsible, reflexive and socially just modes of inquiry when investigating issues in a laboratory or research setting.
- Articulate limitations of your approach and identify potential contributions of other interpretations, methods, and disciplines.
- Organize time and exploit resources effectively.

Community Engagement

Civic engagement | Global learning | Intercultural competence

- Demonstrate an ability to link academic knowledge and research to political and social issues, locally and globally.
- Formulate approaches for engaging Indigenous community partners.
- Demonstrate the ability to reflect upon, learn from, cope emotionally with and operate efficiently in intercultural contexts.
- Communicate research results as appropriate, to target groups such as researchers in the same field, granting organizations, and the general public.
- Support and/or lead outreach efforts to engage the broader public in their research.
Career Goals
Aspirations | Skills | gaps

What are your career goals after graduate school / post-doctoral research? (e.g. I want to become a professor; I want to work in a neurotech company; I want to become a teacher; etc)

Which skills are required to be successful in this career?

Make an inventory of the skills you already have with respect to your career goal requirements.

What are the gaps in your knowledge / skill set? Which knowledge / skills do you need to acquire?

Design a detailed learning plan on how to acquire these skills, e.g. courses, through your research, conferences, TA-ships, etc.

Note: you don’t have to reply to all the above! This is for you! It should provide guidance for you to think about your career and your future in a constructive and creative way so maximize your chances of success!

Advice: come up with a prioritized list of attainable goals and a plan on how to reasonably achieve them!