**Capability profile**

**Version: 0.001**

**Updated: VJ 3rd Apr 2025**

5 levels

1. **Apprentice** Have limited set of skills. Able to work on guided projects or narrow specific tasks. Supervision is needed for brand-new or complex tasks.
2. **Practitioner** Have basic set of skills covering the majority of aspects. Able to work on specific tasks. Supervision is needed for complex tasks.
3. **Competent** Able to apply set of skill to solve real-world problem. Able to solve common problems independently.
4. **Proficient** [Researcher/Engineer]
5. **Expert** [Postdoc with >5 experience]

Note:

In this year, I expect to have about 6 profiles.

**HPC AI specialist apprentice (Lv1)**

**Core function**

* Able to utilize a node of HPC for running AI workload
* Able to prepare a Python environment by following a guideline
* Able to work in batch and offline mode which is a common HPC environment

**Expectation**

* Awareness of HPC terminology
* Awareness of parallelization
* Awareness of related law, policy, regulation, and ethics

**Competency**

* A.1 Understand
* A.2 Remember
* A.3 Apply
* A.4 Remember
* B.1 Apply
* B.2 Apply
* B.4 Apply
* B.5 Understand
* B.6 Apply
* C.1 Understand
* D.1 Apply
* D.3 Apply
* D.4 Apply

**Computational Chemistry Apprentice (Lv1)**

**Core function**

* Able to utilize a node of HPC for running computational chemistry workload
* Able to work in batch and offline mode which is a common HPC environment

**Expectation**

* Awareness of HPC terminology
* Awareness of parallelization
* Awareness of related law, policy, regulation, and ethics

**Competency**

* A.1 Understand
* A.2 Remember
* A.3 Apply
* A.4 Remember
* B.1 Apply
* B.3 Remember
* B.4 Apply
* B.5 Understand
* B.6 Apply
* C.1 Understand
* D.1 Apply
* D.4 Apply