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IT-17-P-2954 Atom Probe Workbench for Materials Science & Engineering

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The Atom Probe Workbench (APW)[1] is a tool for analysing Atom Probe Microscopy data[2] for materials science. Developed under the National eResearch Collaboration Tools and Resources (NeCTAR)[3] Characterisation Virtual Laboratory (CVL)[4] project, the APW collates existing atom probe tools[5] within an Australian NeCTAR cloud infrastructure. APW is deployed on top of the CVL fabric, a software infrastructure common to all CVL application drivers. Features of the APW include those that are inherent to open source programs utilised as part of the workbench, which are Galaxy workflow engine[6] and MyTardis[7]. Additional developed features of the APW include usage tracking & reports, citation reporting[8]. Initial reports from users during development show the potential of APW to be used by researchers around Australia and worldwide.

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