Supporting data-centric science involves the movement of data, multi-stage processing, and visualization at scales where manual control becomes prohibitive and automation is needed. Workflow technologies can improve the productivity and efficiency of data-centric science by orchestrating and automating these steps.

**Snakemake**

Snakemake is a tool that combines the power of Python with shell scripting. It allows users to define workflows with complex dependencies; users can easily visualize the job dependency graph and track which tasks have been completed and are still pending.

**Nextflow**

Nextflow is a data-centric workflow management tool written in Groovy, which facilitates complex and reproducible scientific computational workloads.

**Makeflow**

Makeflow is a workflow engine for large scale distributed computing. It accepts a specification of a large amount of work to be performed, and runs it on remote machines in parallel where possible.