

The Job Submission Form

The submit form is the main way to run jobs on the cluster. Open it from **Submit Job** in the navbar. Every field maps directly to an sbatch option — PowerPortal builds the submission for you.

Required fields

Field	What it sets
Job name	A label for your job. Appears in the Jobs page and in Slurm output.
Partition	The queue to submit to. Determines available nodes, time limits, and which accounts and QOS you can use. Select this first — other fields update based on your choice.
CPUs per task	Number of CPU cores per task. For single-task jobs this is your total core count.
Memory (GB)	RAM per node in gigabytes.
Time limit	Maximum wall-clock time in <code>HH:MM:SS</code> or <code>D-HH:MM:SS</code> format. The job is killed when this limit is reached.
Job script	The shell commands to run. You do not need a shebang — PowerPortal adds <code>#!/bin/bash</code> and <code>source ~/.bashrc</code> automatically so <code>module load</code> works.

Optional fields

Field	What it sets
Account	Slurm account to charge. Defaults to your primary account if left blank.
QOS	Quality of service — controls priority and limits. Only QOS allowed for the selected partition are shown.
Nodes	Number of nodes to allocate.
Node list	Request specific nodes by name (comma-separated). Leave blank to let Slurm choose.
Exclude nodes	Nodes to avoid. Useful if a node is known to be problematic.

Field	What it sets
Constraints	Node feature requirements (e.g. a specific CPU generation). Multiple constraints are ANDed.
Tasks	Total number of MPI tasks. Leave blank for non-MPI jobs.
Tasks per node	MPI tasks per node. Leave blank for non-MPI jobs.
Array	Job array specification, e.g. <code>1-100</code> or <code>0-9%5</code> . See the Job Arrays page.
Output file	Path for stdout. Defaults to <code>slurm-%j.out</code> in your working directory.
Error file	Path for stderr. Defaults to <code>slurm-%j.err</code> in your working directory (a separate file from stdout, not the same file).
Working directory	Directory the job runs from. Defaults to your home directory. Use absolute paths in your script if your input files are elsewhere.
Dependency	Wait for other jobs before starting, e.g. <code>afterany:12345</code> . Separate multiple jobs with <code>:</code> , e.g. <code>afterany:101:102:103</code> .
Notify email	Email address to notify about job events. Defaults to none.
Notify on	Which events trigger a notification email — Begin, End, Fail, Requeue, Time limit / 90% / 80% / 50% reached, Stage out, Invalid dependency, Array tasks, or All. Requires Notify email to be set.
GPU fields	GPU count and type appear only when you select a GPU-enabled partition.

Submitting

Click **Submit Job**. On success, PowerPortal redirects you to the Jobs page after 2 seconds where your new job appears at the top of the list.

Saving as a template

Click **Save as template** before submitting to store the current configuration for reuse. See the Templates chapter for details.