

The JGI fuels biotechnology with data.

We empower researchers – JGI Users – with genomics tools and world-class, AI-ready datasets as they look to organisms for new ways to solve all kinds of challenges.

Bi • o • tech • nol • o • gy *noun*
Products and processes created from cells, microorganisms, enzymes or biological molecules like DNA.

We study species that excel at creating fuels, chemicals and materials. With AI and automation, we create opportunities for scientists to predict, design and engineer many biological processes.

This mural at our site in Berkeley, California shows some of the species that JGI users have studied.

Generating bioproducts

Boosting energy crops

Improving soil health

Recovering critical minerals

With artificial intelligence, users can leverage vast data to build understanding.

In turn, we automate and optimize our data generation to feed AI-driven innovation.

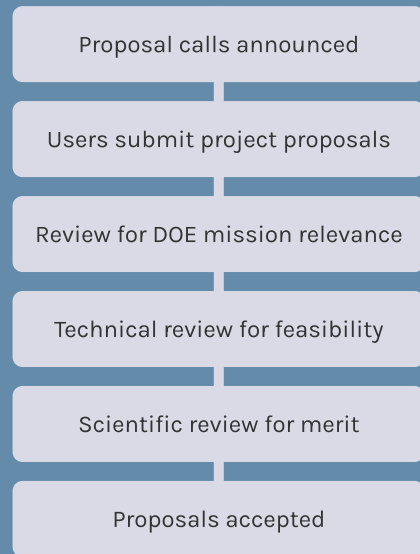
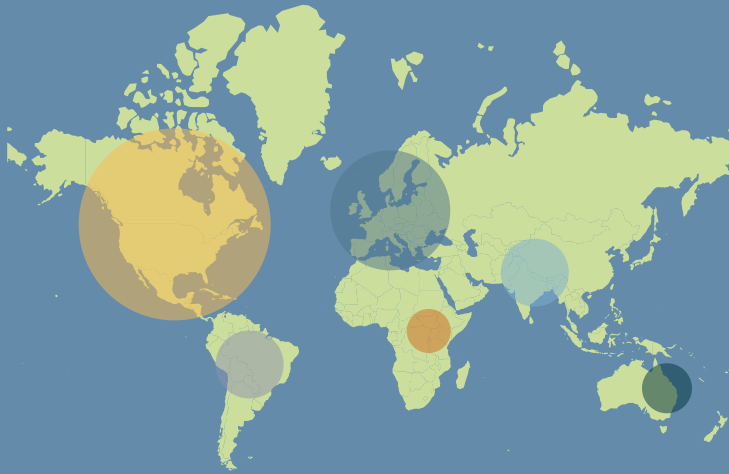


We give researchers powerful ways to access biological data and decode DNA, RNA and metabolites across the planet.

Find out how to work with us: jgi.doe.gov



We accept project proposals from researchers at all career stages, all around the world.



With an accepted proposal, JGI Users gain access to deep expertise and a broad toolset.

Metabolomics

Polar & non-polar metabolite analysis

DNA Synthesis Science

Constructs, combinatorial libraries, complex libraries

Secondary Metabolites

Discovery, expression, characterization



Plants

Genome sequencing, resequencing, transcriptomes, DAP-seq

Fungi & Algae

Genome sequencing, resequencing, transcriptomes, DAP-seq

Microbes

Genome sequencing, resequencing, transcriptomes including viruses, DAP-seq

Metagenomics

Environmental genomes & transcriptomes, cell enrichments, Stable Isotope Probing

These projects serve a wider scientific community.

The JGI publishes discoverable, accessible data and metadata after each project's embargo period.

With our partners, we ensure this data is future-ready and integrated into a multi-disciplinary ecosystem.

Tens of thousands of researchers use the data, publications and software that we've built with our users.