

JGI-UC Merced Internship Program

Ashleigh Papp
October 28, 2021

- ✓ The Joint Genome Institute (JGI)
- ✓ JGI-UC Merced Internship Program
- ✓ Professional Development
- ✓ The Intern's Experience
- ✓ What's Next
- ✓ Stay in Touch



The 2018 JGI-UC Merced intern cohort with their mentors, along with JGI Director Nigel Mouncey and Internship founders/organizers Axel Visel, Suzanne Sindi and Zhong Wang.

The DOE Joint Genome Institute



Integrative Genomics Building (IGB)



JGI's Unique Role:

To provide the global research community with access to the most advanced integrative genome science capabilities for advancing solutions to bioenergy & environmental challenges



UNIVERSITY
OF
CALIFORNIA



U.S. DEPARTMENT OF
ENERGY

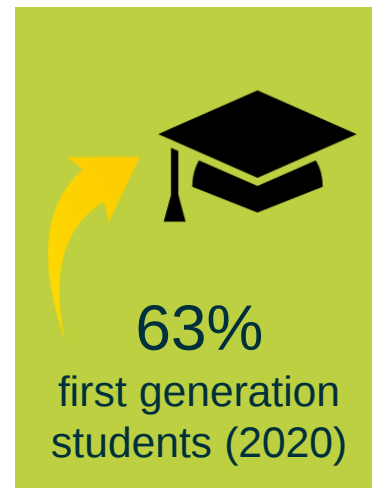
Office of
Science

Since 2014, JGI has hosted ~50 students from UC Merced for an 8-week summer internship program.

The program was conceived by JGI scientists and UC Merced faculty to involve students in projects at JGI that provide hands-on experience in groundbreaking genomic research, and apply experimental and computation tools to solve research problems.

While interning at JGI, interns also:

- ✓ Grow & develop professional skills applicable to any path
- ✓ Practice giving scientific presentations
- ✓ Network with JGI researchers and across Berkeley Lab



Developing the Next Generation of Genome & Data Scientists

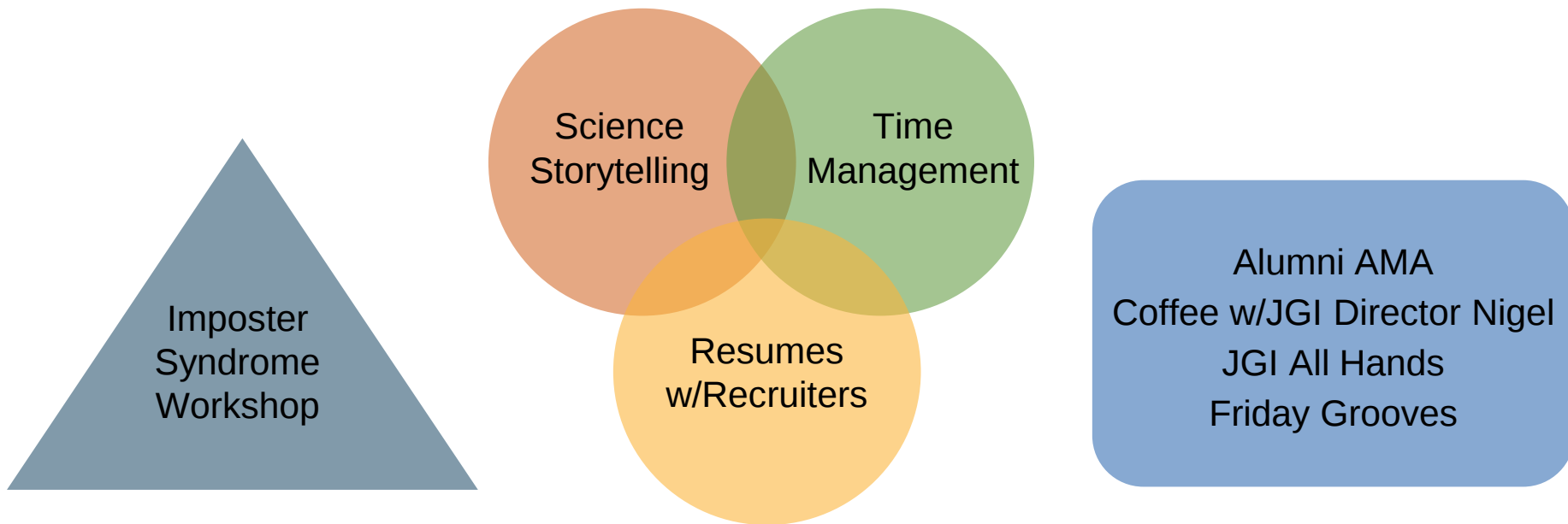
2021 JGI-UC Merced Internship Program



- Students: range of majors & interests; graduate and undergraduate
- Process: mentors submit project proposals, students rank their top choices, program team pairs
- Enrichment: professional development, networking, Lab-centric meetings

- Background:
 - This is JGI's flagship program, we look to this program as a model
 - External and internal evaluation of the program in 2020 & 2021





The JGI-UC Merced Intern Experience (video)

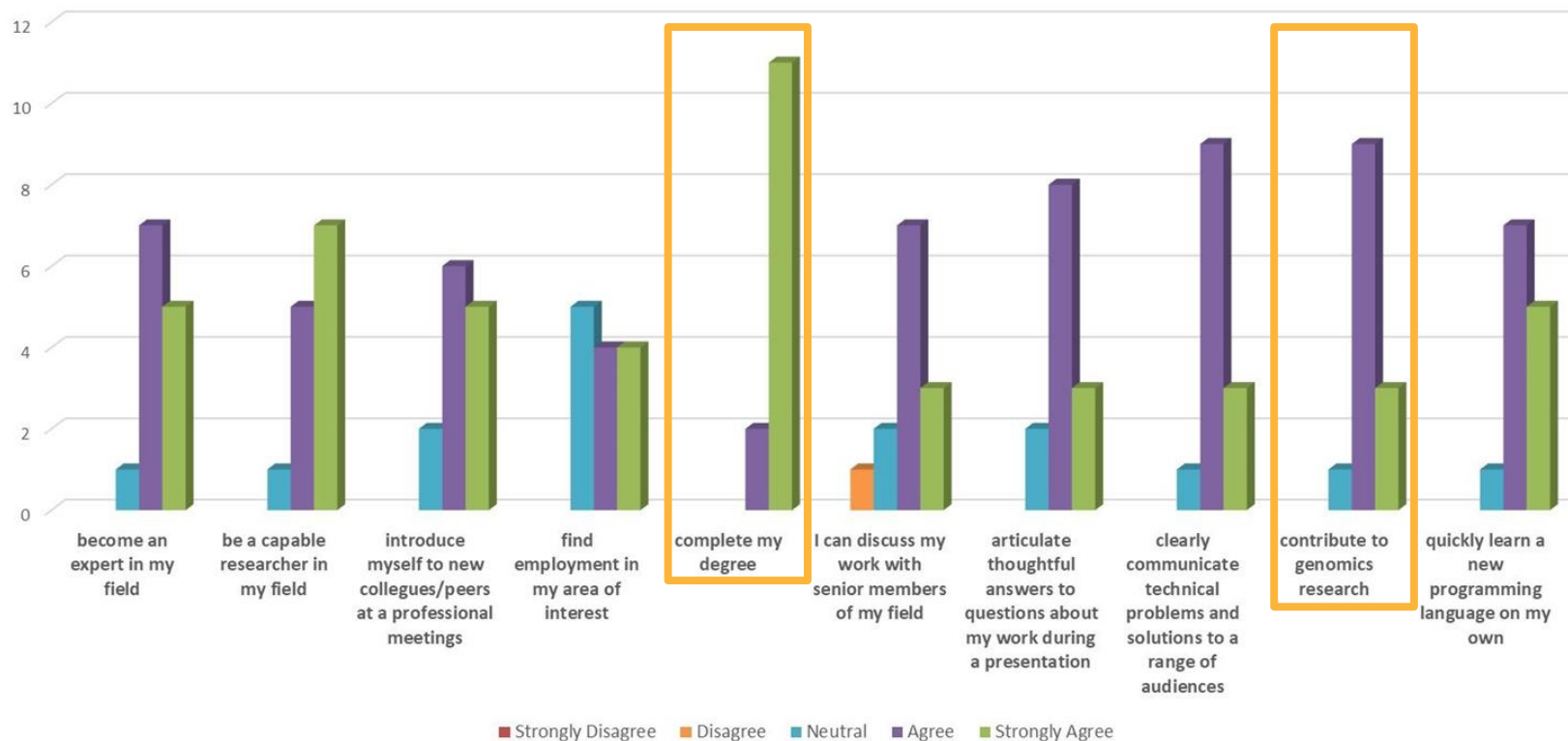
Introduction



What's Next?

Post-Internship Technical & Professional Confidence

N=13



Please stay in touch!



joint-genome-institute



@JGI



bit.ly/Podcasts-by-JGI

Engaging the next generation workforce

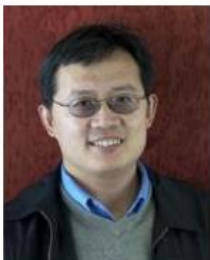
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jgi-comms@lbl.gov

Meet the JGI-UCM Program Team



Zhong Wang

Title: Co-founder of JGI-UC Merced Internship Program; Computational Biologist

Email: ZhongWang@lbl.gov

Phone: 925-330-7734 (Mobile)



Natasha Brown

Title: Program Coordinator, JGI-UC Merced Internship Program; Supply Chain Manager

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Axel Visel

Title: Co-founder of JGI-UC Merced Internship Program; Deputy, Science, JGI

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Phone: 510-495-2301 (Office)



Anne Mason

Title: Administrative Support, JGI-UC Merced Program; Administrative Services Travel Coordinator

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Phone: 510-908-4099



David Gilbert

Title: JGI Education Partnerships; Senior Manager, JGI Communications & Outreach Office

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Phone: 510-495-8333



Ashleigh Papp

Title: Documentarian and Enrichment Coordinator; Communications Specialist

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Phone: 925-998-6822

Meet the JGI-UCM Program Team (continued)



Suzanne S. Sindi

Title: Co-founder of JGI-UC Merced Internship Program;
Assistant Professor at UC Merced

Email: ssindi@ucmerced.edu

Phone: (209) 228-4224

Research Interests:

- Mathematical Biology
- Dynamical Systems
- Computational Biology



A. Carolin Frank

Title: Co-founder of JGI-UC Merced Internship Program;
Associate Professor at UC Merced

Email: cfrank3@ucmerced.edu

Research Interests:

- Environmental
- Symbiotic Microbiology
- Genomics



Jorge Arroyo

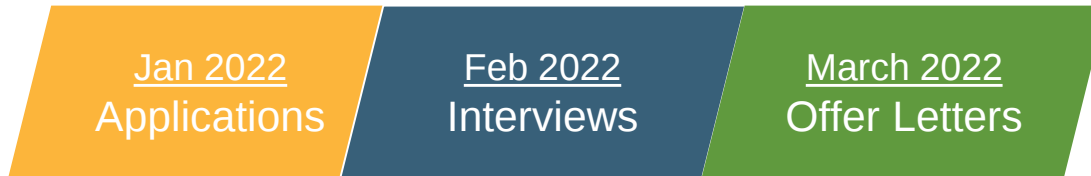
Title: Director, Undergraduate Research Opportunities Center
(UROC)

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Phone: (209) 228-4245

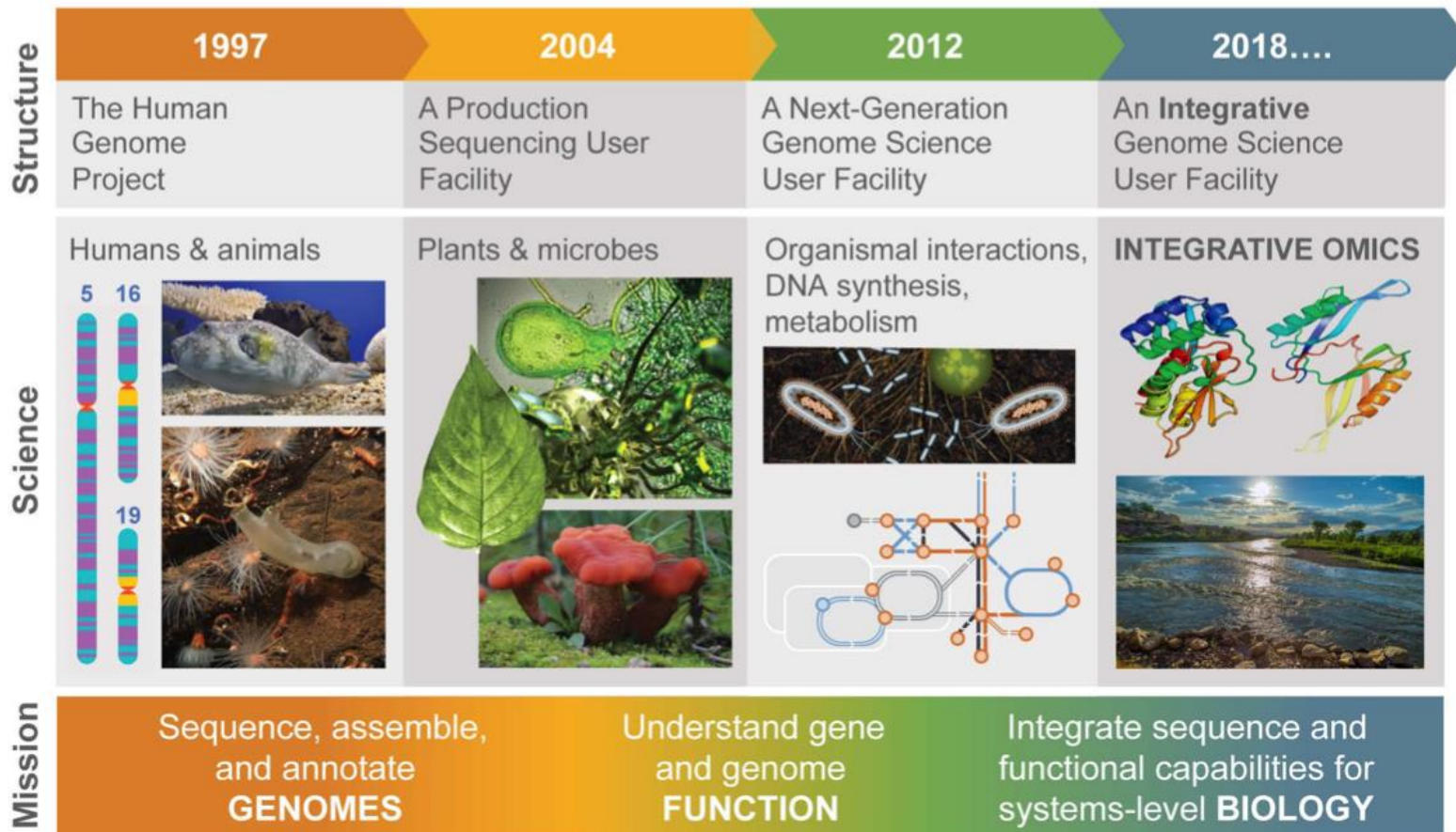


- Upcoming timeline for 2022 internship program:



- Save the date! 2022 JGI Annual Meeting: August 29 - September 2, 2022

JGI History



2,038 JGI Worldwide User Community in FY2020

Academic: 1,504 (74%)
Government: 183 (9%)
DOE National Laboratory: 161 (8%)

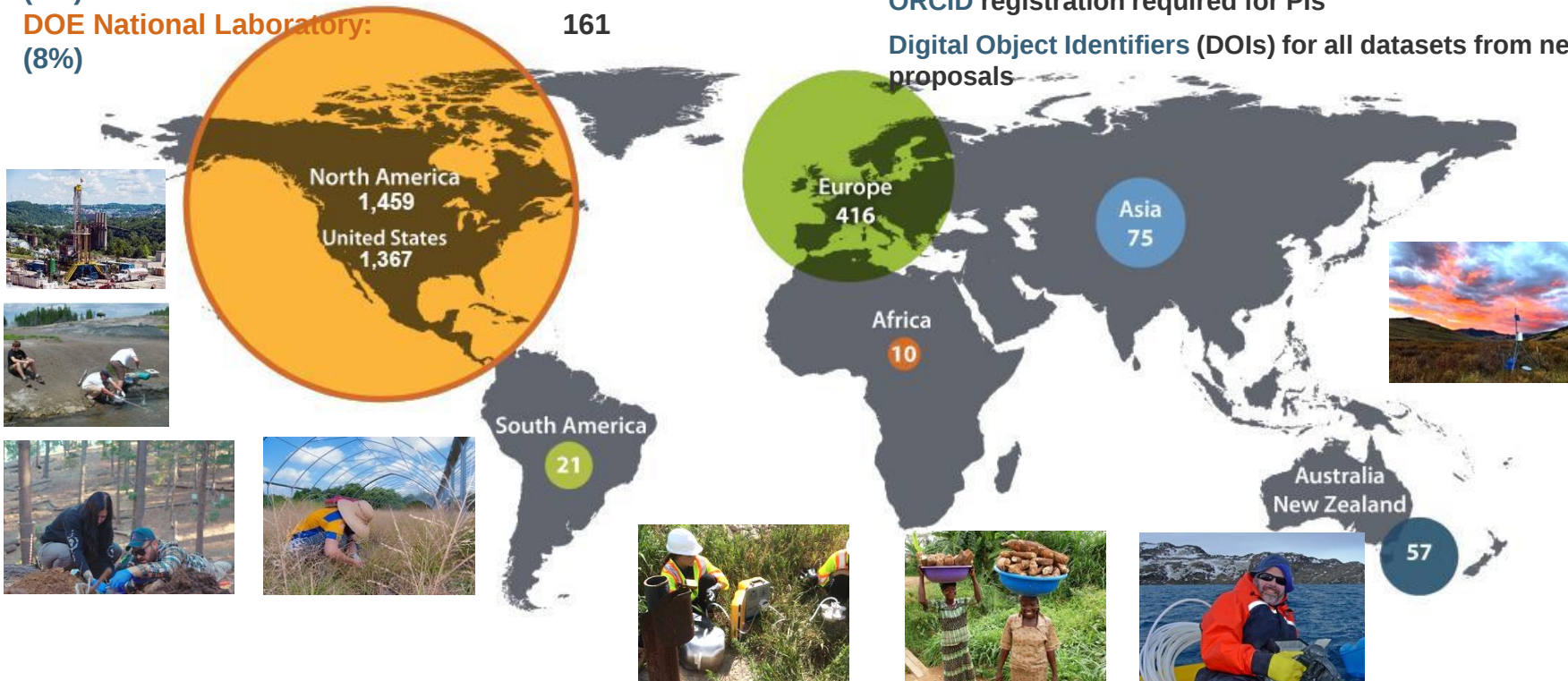
Industry: 29 (1%)
Other: 161 (8%)

>10,700 unique data users

>3.5M data file downloads

ORCID registration required for PIs

Digital Object Identifiers (DOIs) for all datasets from new proposals



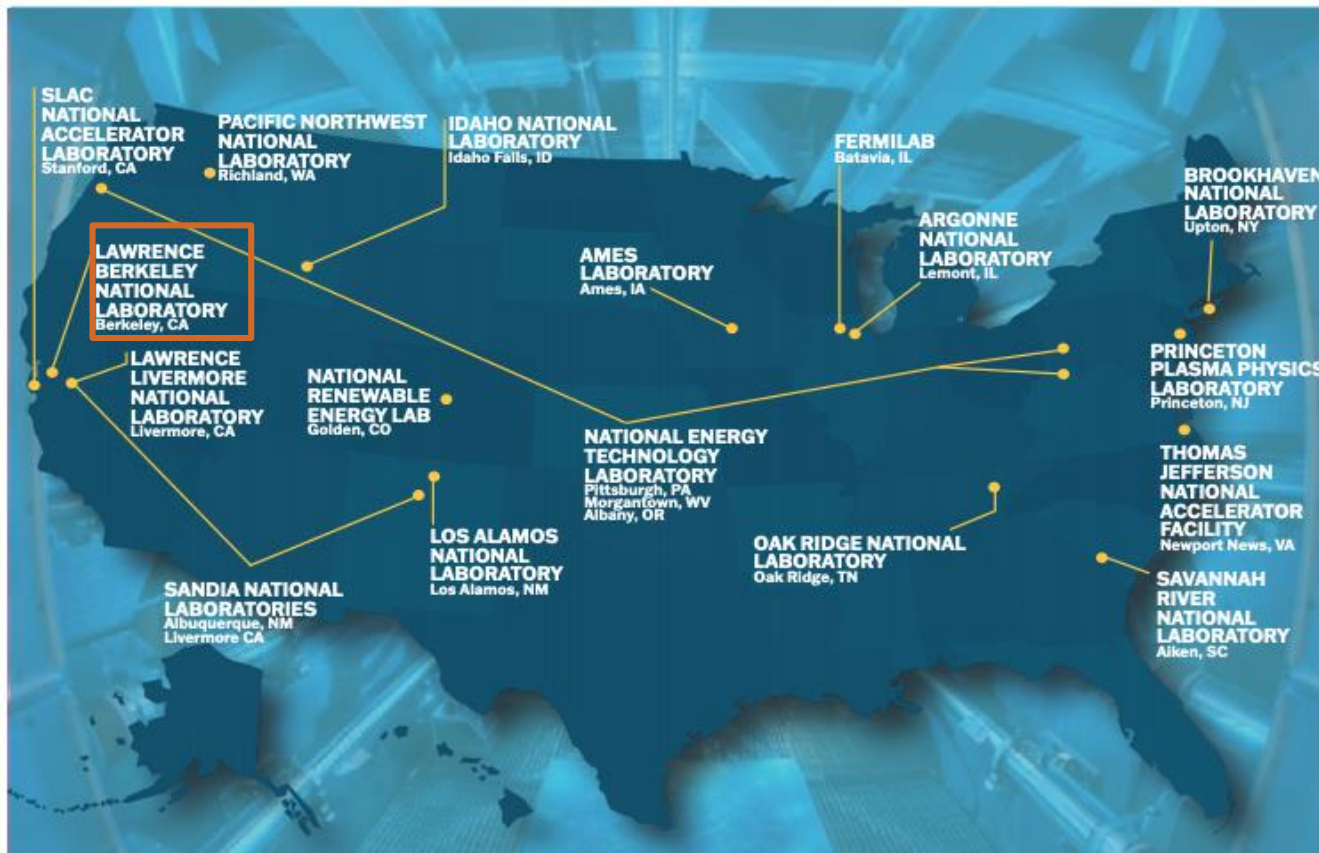
Overview of National Labs & JGI (continued)

Integrative Genomics Building

[Check out the recording from a recent virtual tour of JGI here!](#)

Overview of National Labs & JGI

Environment
Health
Energy



[Image credit: DOE National Labs Report 2020](#)

The DOE Joint Genome Institute



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Scientific Capabilities Enabling JGI User Community

Mission Areas

Bioenergy



Carbon Cycling



Biogeochemistry



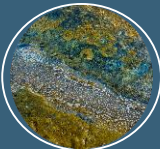
Programs

Plant



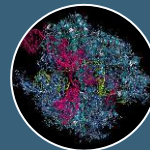
Fungal & Algal

Metagenome



Microbial

DNA Synthesis



Secondary Metabolites



Metabolomics



Capabilities

DNA Sequencing



Advanced Genomic Technologies



Computational Analysis



DNA Synthesis

