

# GENOMIC SCIENCE PROGRAM BY THE NUMBERS | FY 2018

BER's Genomic Science program supports fundamental research to achieve a predictive, systems-level understanding of plants, microbes, and biological communities, thereby enabling biobased solutions to DOE mission challenges in energy and the environment.

## 6 RESEARCH AREAS

- Systems Biology for Bioenergy
- Plant Science for Bioenergy
- Sustainability Research for Bioenergy
- Biosystems Design
- Environmental Microbiome Science
- Computational Biology



## GSP RESEARCH SPANS



**63** Academic, Nonprofit, and Industrial Institutions

**33** States, Puerto Rico, and Washington, D.C.

**11** DOE National Laboratories

## 98 ACTIVE RESEARCH PROJECTS



**74** University-Led

**23** National Laboratory-Led

**1** Interagency-Led

## LEVERAGING BER CAPABILITIES FOR GSP RESEARCH CHALLENGES

**4** BER RESOURCES WITH **>3,000** PRIMARY USERS A YEAR

- Joint Genome Institute
- Systems Biology Knowledgebase (KBase)
- Environmental Molecular Sciences Laboratory
- Structural Biology and Imaging Resources (located at light and neutron sources supported by DOE's Office of Basic Energy Sciences)

## 4 BIOENERGY RESEARCH CENTERS

- Center for Advanced Bioenergy and Bioproducts Innovation
- Center for Bioenergy Innovation
- Great Lakes Bioenergy Research Center
- Joint BioEnergy Institute



## BRC SCIENTIFIC AND TECHNOLOGICAL OUTPUT FROM 2007 TO PRESENT

<b>2,999</b> Publications	<b>119</b> Patents
<b>670</b> Invention Disclosures	<b>224</b> Licenses/Options
<b>433</b> Patent Applications	<b>18</b> Company Startups

**\$228.7 MILLION** RESEARCH BUDGET