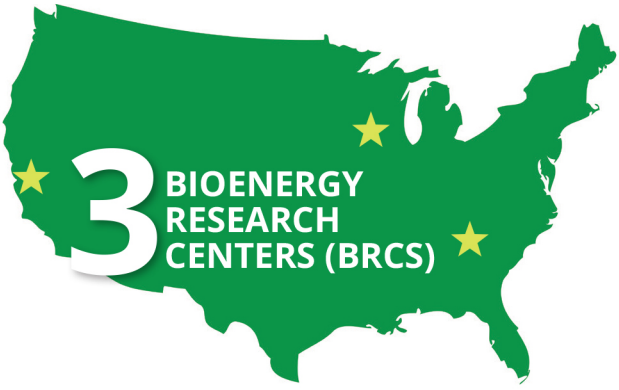
U.S. DEPARTMENT OF ENERGY

BIOENERGY RESEARCH CENTERS

BY THE NUMBERS: 2007 TO 2017



5 RESEARCH FOCUS AREAS

- Biomass Supply and Sustainability
- Biomass Development
- Biomass Deconstruction and Separation
- Conversion of Biomass to Biofuels
- Enabling Technologies

SCIENTIFIC STAFF*

GLBRC	BESC	JBEI
~325	~250	~150

CITATIONS AS OF DECEMBER 2017

>113,000

2,696 Publications

EDUCATION, OUTREACH

EDUCATORS	STUDENTS
>1,000	>650,000 and increasing

BRC RESEARCH SPANNED

35 Academic, Nonprofit, and Industrial Institutions

7 DOE National Laboratories

25 States

TECHNOLOGICAL OUTPUT

Invention Disclosures	619
Patent Applications	397
Patents	101
Licenses/Options	199
Company Startups	15

IMPACT ON FUTURE SCIENCE

MULTIDISCIPLINARY TRAINING PROVIDED FOR MORE THAN 970 ALUMNI

From 2007 to 2017, more than **970** graduate students and postdoctoral researchers participated in the BRCs before moving on to other positions in academia, national laboratories, industry, and nonprofit research organizations.

GLBRC	BESC	JBEI
60% Academia	45% Industry	40% Academia
25% Industry	40% Academia	40% Industry
15% Nonprofit Research Organizations	15% National Laboratories	10% National Laboratories
		10% Other

* Total number of scientists and research laboratory technicians (excluding graduate students and postdoctoral researchers) supported over the 10-year period at the Great Lakes Bioenergy Research Center (GLBRC), BioEnergy Science Center (BESC), and Joint BioEnergy Institute (JBEI).