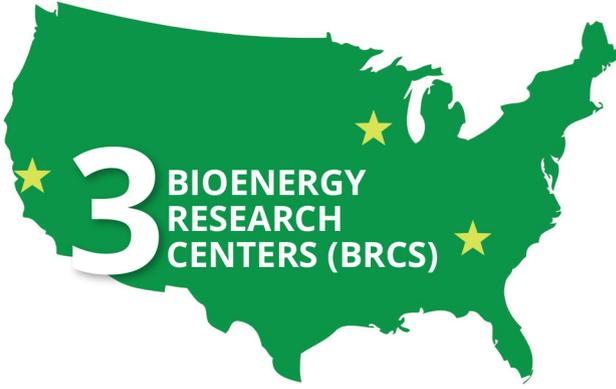


U.S. DEPARTMENT OF ENERGY

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 ~325 BESC ~250 JBEI ~150

CITATIONS AS OF DECEMBER 2017
>113,000

2,696

Publications

EDUCATION, OUTREACH

EDUCATORS **>1,000** STUDENTS **>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).