Plants—3D will train students to discover, design, and deploy biology and engineering solutions to the projected problem of massive -scale food insecurity due to climate change.

The program was made possible by a $3 million grant from the National Science Foundation Research Traineeship (NRT) program. It will fund a total of 50 students, who will receive academic and entrepreneurial training, as well as mentorship and stipends to help them travel to professional conferences.

The NRT Program is designed to encourage the development and implementation of bold, new potentially transformative models for STEM graduate education training. This program will increase the diversity and capacity of the nation's workforce in agricultural biotechnology by building upon the institution's effective model for minority and first-generation undergraduate education in STEM.

Plants–3D unites faculty experts in plant biology, synthetic biology and engineering to train students in transdisciplinary integration of knowledge and tools to create solutions to accelerate the translation of their discoveries to practical applications.

UNIVERSITY OF CALIFORNIA
UC RIVERSIDE

Center for Plant Cell Biology
at UC Riverside

plants 3d

PLANTS-3D NRT RETREAT

NSF

November 15-17, 2019

UCLA Lake Arrowhead
Conference Center

"Discover, Design and Deploy"

FRIDAY

Tavern Room
4:00 PM Check-In

5:00 PM Opening Reception

Iris Room
6:30 PM Dinner

7:50 PM Welcome

Keynote Speaker
8:00 PM **Joff Silberg**
Stewart Memorial Professor
Department of BioSciences
Rice University

9:00 PM NRT Vision
Tavern Room
9:20 PM Social

SATURDAY

Iris Room
8:00 AM Breakfast

Session Moderator: **Ian Wheeldon**
Associate Professor
Chemical &
Environmental
Engineering

Iris Room
9:00 AM **Julia Bailey-Serres**
Distinguished Professor
Botany & Plant Sciences

SATURDAY

(CONTINUED)

9:20 AM **Justin Chartron**
Assistant Professor
Bioengineering

9:40AM **Yanran Li**
Assistant Professor
Chemical &
Environmental Engineering

10:00 AM **David Nelson**
Associate Professor
Botany & Plant Sciences

10:20 AM Coffee Break

Session Moderator: **Julia Bailey-Serres**
Distinguished Professor
Botany & Plant Sciences

10:35 AM **Linda Walling**
Professor
Botany & Plant Sciences

10:55 AM **Danelle Seymour**
Assistant Professor
Botany & Plant Sciences

11:15 AM **Meng Chen**
Associate Professor
Botany & Plant Sciences

11:35 AM **Stefano Lonardi**
Professor
Computer Science & Engineering

12:00 PM Lunch

SATURDAY

(CONTINUED)

Skyview

1:00 PM NRT Planning
(NRT faculty only)

2:00 PM Free Time

Iris Room
5:00 PM Poster Social

6:30 PM Dinner

7:45 PM Interactive Activity

Tavern Room

9:15 PM Social

SUNDAY

Check-out of rooms by Noon

Iris Room

8:00 AM Breakfast

9:00 AM Lightning Talks

10:20 AM Break

10:35 AM Lightning Talks

11:30 AM Future Directions for the NRT

12:00 PM Lunch