Development of a Biosecurity Sequence Screening Training Course for Bioengineers

Impact o

Background

This course aims to increase awareness

BioMADE members Signature Science,

Rice University, and Aclid, developed a

The Biggest Challenges with Sequence Screening

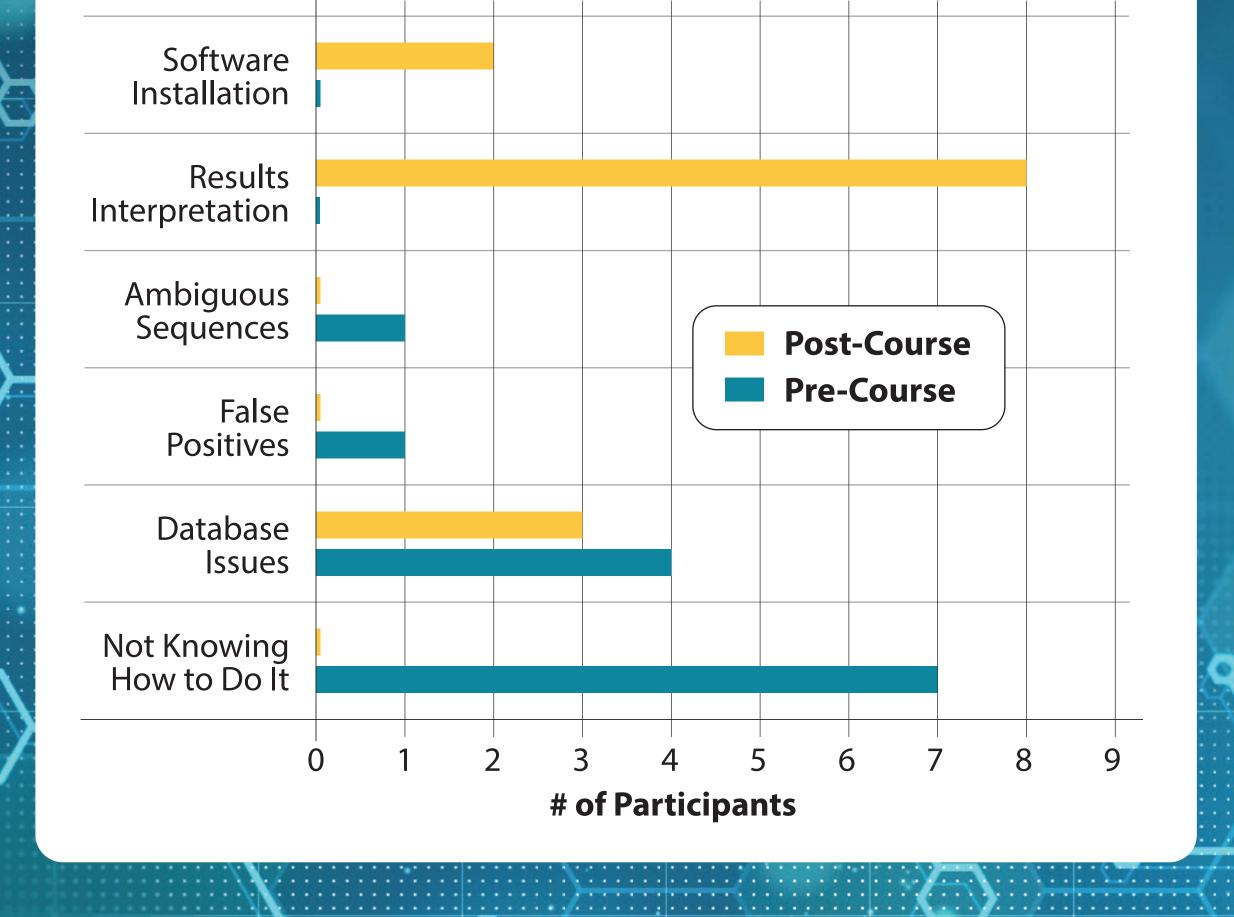
about proactive biosecurity sequence screening measures that are recommended to sustainably grow the bioindustrial manufacturing sector. Although guidelines for sequence screening exist, many bioengineers have not been taught this material or had the opportunity to learn how to put these concepts into practice for their strain engineering work.

Number of Participants by Job Sector

U.S. Government

biosecurity sequence screening training
course for bioengineers to promote the
safe use of bioengineering technology.
On March 31, 2023, this one-day, live
training course provided participants
with the relevant background, example
test datasets, hands-on experience,
and practical knowledge to leverage
open-source software to perform
nucleotide screening on a range of
case studies and sequence types
that were representative of potential
bioengineered sequences.

Outcomes



Participant Confidence

Post-Course



U.S. Government Contractor

Industry



THIS IS TO CERTIFY THAT

Academia

Sheela Vemu

Has successfully completed the Signature Science, LLC Biosecurity Sequence Screening Training Course for Bioengineers

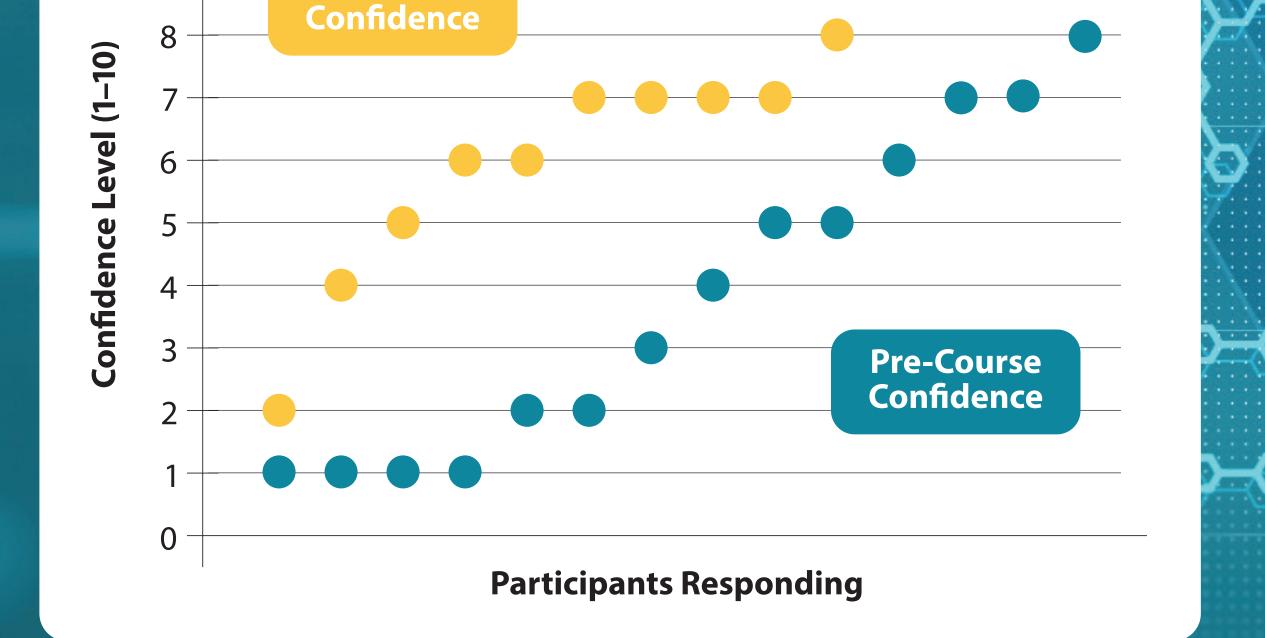


K**rista Ternus** Lead Course Developer



The March 31st course delivery was considered successful because of the participation numbers (goal = >5 course participants) and assessment of participant experience (goal = improved biosecurity screening knowledge in post-course survey results compared to the

pre-course survey results).



In addition to the March 31st live course delivery to members of BioMADE and the U.S. Government, the other major project deliverable will be the creation of online course modules, which will be released to the public by October 2023.

MEMBER PARTNERS

