



AFRI Foundational Program — Plant Health and Production: Computational Approaches to Crop Resilience

Funding Opportunity USDA-NIFA-AFRI-0010447 · Reissue of USDA-NIFA-AFRI-0009812 (FY2025)

Application Deadline	April 9, 2026, 5:00 p.m. ET
Letter of Intent	Not required
Award Size	\$200,000 total, including indirect costs
Project Duration	Maximum 2 years
Anticipated Awards	Approximately 14

Purpose

This program area supports computational and data-driven approaches to understanding and improving crop resilience. Priority is given to work on **sorghum**, maize and other bioenergy and small-grain crops, including **gene expression prediction**, regulatory genomics, **high-throughput phenotyping**, and the integration of genomic and phenomic data for trait prediction under abiotic stress.

Program Area Priorities

- Predictive models linking genotype to phenotype in field conditions.
- Genomic foundation models and sequence-to-expression prediction in crop species.
- High-throughput and multispectral phenotyping, including **PlantCV**-based pipelines.
- Open, reusable datasets and analysis pipelines for the plant research community.

Award Information

The maximum award is \$200,000 for the entire project period, inclusive of both direct and indirect costs. Applications requesting more than this amount will not be reviewed. The maximum project period is 2 years. NIFA does not permit budget increases after award.

Applicants are reminded that the statutory indirect cost limit for AFRI is 30% of Total Federal Funds Awarded. An application requesting the full \$200,000 therefore has approximately \$153,850 available for direct costs across the full project period.

Reissue Notice

This funding opportunity reissues USDA-NIFA-AFRI-0009812 (FY2025) without substantive change to program area priorities, eligibility or award size. Applicants who submitted to the FY2025 competition and were not funded may resubmit; a response to previous reviews is optional and does not count against the page limit.

Eligibility

Open. No institutional or PI submission limits.