

GEORGIA PEANUT COMMISSION
2022-2023 Research Project Proposals
AS OF: 3/9/22

UGA Tifton Campus			APPROVED
Project Number	Project Title	Investigator(s)	2022-23
1-CPES-1-82/23	The Georgia Peanut Evaluation Program	Branch	50,000
2-UGAT-26-19/23	Long-term Germplasm Enhancement and Development of DNA Molecular Marker Resources for Peanut	N. Brown	30,000
3-CPES-29-86/23	Development and Evaluation of Cultivars with Improved Disease Resistances to Increase On-Farm Profitability	Holbrook	30,000
4-CPES-48-89/23	Adaptation of New Fungicides and Application Strategies for Control of Early & Late Leaf Spot of Peanut	Culbreath	8,000
5-CPES-161-09/23	Fine Mapping and Candidate Gene Analysis of Novel QTLs for Resistance to TSWV and Leaf Spots in Peanuts	Guo/Culbreath	20,000
6-CPES-173-11/23	Effect of In-Furrow Seed and Foliar Insecticide Treatments on Tomato Spotted Wilt and Yield in New TSWV Resistant Cultivars	Culbreath	8,000
8-UGAT-31-21/23	Incorporating Volumetric Water Content (Capacitance) Sensors into the Irrigator Pro-Based Irrigation Scheduling Tool	Vellidis	18,900
9-UGAT-11-15/23	Biology and Management of Peanut Burrower Bug in Georgia	Abney	9,000
10-UGAT-16-20/23	Rootworm Population Dynamics and Management	Abney	8,900
11-UGAT-15-16/23	Fungicide Sensitivity of <i>Sclerotium Rolfsii</i> (Causing White Mold) From Peanut in Georgia	Brenneman	18,830
12-UGA-33-21/23	Transcriptional Responses in Wild Peanut Genotypes in Comparison with GA-06G Following Thrips-Mediated TSWV Transmission	Srinivasan	7,530
13-UGAT-34-21/23	Compare High Oleic Cultivars for Physiological Trait Relationships for Seed Germination and Vigor with Respect to Harvest Timing: Year 2	Grey	10,000
14-UGAT-28-19/23	Physiological seed quality: Impact of drought at flowering and fruiting.	Pilon	15,000
15-UGAT-NEW	Precision Peanut Planter Kit to Improve Seed Metering and Placement	Porter/Rains	30,000
16-UGAT-19-20/23	Adjusting In-Season Trigger Levels for Maximizing Peanut Growth and Yield	Porter	18,000
17-UGAT-25-18/23	Continuance of a long term Sustainability Program for Peanut Production in Georgia Utilizing the Field to Market Field Print Calculator 2022	Porter	18,000

18-UGAT-30-19/23	Nonchemical-based Sprays for Triggering Host Resistance: A New Strategy to Manage Spotted Wilt Virus	Bag	15,000
19-UGAT-20-20/23	To Investigate the Re-emergence of Tomato Spotted Wilt Orthotospovirus and its Role in Increasing Yield Loss on Peanuts Using Next-Generation Sequencing and Genomic Surveillance in GA	Bag	20,000
20-UGAT-35-21/23	Precision Breeding for Multiple Disease Resistance	Ozias-Akins	22,000
21-UGAT-37-21/23	Investigating and Implementing Precision Ag Practices for Site-Specific Nutrient Management in Peanuts	Virk	12,000
22-UGAT-38-21/23	Investigating Spray Parameters and Precision Technologies to Improve Fungicide Applications in Peanuts	Virk	28,000
Total CPES/UGAT			\$ 397,160.00

Extension Service

Project Number	Project Title	Investigator(s)	2022-23
23-CES-12-87/23	University of Georgia Cooperative Extension County Agent Programs	Monfort	21,000
24-CES-59-15/23	University of Georgia Agronomic Research & Extension Programs to Address Economic Sustainability of Peanut Production	Monfort	42,000
25-CES-60-16/23	Georgia Peanut Achievement Club for Recognizing Whole-Farm Peanut Yields	Monfort	5,000
26-CES-61-21/23	Peanut Storage Conditions Effect on Seed Respiration and Germination	Monfort	20,000
Total CES			\$ 88,000.00

Griffin Station

Project Number	Project Title	Investigator(s)	2022-23
27-GS-50-20/23	Impact of Seed Rate on Peanut Water-Use Efficiency and Yield: 3rd Year	Leclerc	25,000
Total Griffin Station			\$ 25,000.00

Athens Station

Project Number	Project Title	Investigator(s)	2022-23
28-UGA-42-16/23	Introgression of disease and pest resistance traits from wild species for sustainable peanut improvement	D. Bertoli	29,900
29-UGA-43-20/23	Selection of A. stenosperma-derived Advanced Lines with Strong Resistance to LLS Using Association Analyses	S. Bertoli	30,000

30-UGA-49-18/23	Identification and utilization of new sources of resistance to White Mold in wild tetraploid Arachis for peanut improvement	S. Bertioli	26,000
31-UGA-44-20/23	New Sources of Root Knot Nematode resistance from the Wild Species A. stenosperma into Elite Peanut Lines	D. Bertioli	20,000
32-UGA-48-19/23	Test the Combined Effect of High Calcium and Biocontrol in Reducing Aflatoxin: Year 2	Yang	5,000
Total Athens Station			\$ 110,900.00

UGA-ENG

Project Number	Project Title	Investigator(s)	2022-23
UGA-ENG	Engineering Intern		10,000
UGA-ENG	Senior Design Teams		10,000
Total UGA ENGINEERING			\$ 20,000.00

ABAC

Project Number	Project Title	Investigator(s)	2022-23
34-ABAC-01-19/23	A Multi-Economic Analysis Program to Enhance the Sustainability of Georgia Peanut Producers	Fletcher	25,000
35-ABAC-02-19/23	Analysis of Potential Impacts of the 2023 Farm Bill on Georgia Peanut Producers	Fletcher	25,000
36-ABAC-03-19/23	Analysis of Crop Insurance as a Risk Management Strategy for Georgia Peanut Producers Utilizing the Representative Peanut Farm Database	Luke-Morgan	17,650
Total ABAC			\$ 67,650.00

NATIONAL PEANUT RESEARCH FOUNDATION

Project Number	Project Title	Investigator(s)	2022-23
37-NPF-01-00/23	The Peanut Foundation	S. Brown	18,000
Total NPF			\$ 18,000.00

Other Projects

Project Number	Project Title	Investigator	2022-23
38-FVSU-01-21/23	Predicting Harvest Maturity and Enhancing Yield and Quality of Peanuts Using Sensor-based System and Economic Appraisal	Mahapatra	15,000
41-Nino Brown	Start-up & Robot (Evaluation and Development of High-Throughput Phenotyping Technologies for Peanut)		43,495.36
The Peanut Institute			10,000
Total for Other Projects			\$ 68,495.36

FY 2022-2023 Approved Research Projects

\$ 795,205.36