



Volunteer for Virginia Tech Study on Responsible Innovation in Digital and Precision Farming

The purpose of this study is to co-design digital and precision farming tools to aid **Virginia** farmers' decision making capabilities

We strongly encourage Virginia farmers with available historical data, including soil and yield records, to apply!!

Benefits and Compensation:

- **\$500 baseline participation payment** over two years equivalent to \$50/hr
- Opportunity for **\$500-\$1000/year of additional incentives** for reducing nitrogen and/or phosphorus amounts to be decided and agreed upon based on baseline measurement (random selection)
- Free access to your field level data on crop yields, soils and nutrients.

What is required of participants:

- 10 hours total over two years
- Interviews and surveys (1.5 hours each year)
- Two design workshops / trainings for technology use each year (3 hour each)
- 30 minutes phone check-in (twice per year for three years)
- Play serious computer game (1 hour)
- Unmanned areial drone flights with hyperspectral camera over fields (twice per year)

Field-level information on soil and water will be collected through unmanned aerial drone flights (twice/year) with explicit participant permission before each flight.

In a subset of your farm (identified by you), we may setup a soil and water sampling program to collect periodic soil and water samples. This data will be help supplement imagery collected from the drones.



For more information contact:

Principal Investigator, Dr. Maaz Gardezi at (515) 686-1594 or email at maaz@vt.edu

Graduate Student: Jitender Rathore (757) 957-3628, or email at jitenderr15@vt.edu

National Science Foundation Future of Work Human-Technology Frontier # 2202706