UNIVERSITY RESEARCH PARTNERSHIPS

Clemson PSA and the SC-IHPP
2014 Farm Bill
- industrial hemp is grown or cultivated for purposes of research conducted under an agricultural pilot program or other agricultural or academic research

SC H3559
- Any public institution of higher education offering a four-year baccalaureate degree or private institution of higher education accredited by the Southern Association of Colleges and Schools offering a four-year baccalaureate degree throughout the State may conduct research, pursuant to Public Law 113-79, contingent upon funding. The institution may conduct research or pilot programs as an agricultural commodity and may work with growers located in South Carolina. Once the institution of higher education engages in research on industrial hemp, the institution shall work in conjunction with the Department of Agriculture to identify solutions for applications, applicants, and new market opportunities for industrial hemp growers.

SCDA Permit Application Process
- Letter of Intent from a Qualifying College/University
INDUSTRIAL HEMP PILOT PROGRAM

LETTER OF INTENT – QUALIFYING COLLEGE/UNIVERSITY

Please provide this letter of intent with your application

This Letter of Intent is between __________________________________ and __________________________________
and is an expression of the parties qualified interest to partner with each other to conduct research on industrial hemp
as part of the South Carolina Industrial Hemp Pilot Program.

Research Purpose (must match application) _____________________________________________________________

Applicant Name ________________________________________________________________
Address ________________________________________________________________
Physical Address (if different) ______________________________________________________________
GPS Coordinates ________________________________________________________________
Applicant Signature ________________________________________________________________

College/University Name ________________________________________________________________
Researcher Name ________________________________________________________________
Department ________________________________________________________________
Address ________________________________________________________________
Phone Number ________________________________________________________________
Researcher Signature ________________________________________________________________
Name & Signature of Authorized Personnel ________________________________________________________________
Research goals and methods

- Projects will describe and follow a detailed scientific method.
- Question(s) and hypothesis to provide the SCDA, institutions of higher education, and industrial hemp commodity groups with:
  - new, regionally appropriate and useful production information,
  - and a better understanding of in-state market potential.
- Allows for the future structuring of an industrial hemp industry in our state.
- (Recommended that project results be published in agricultural or scientific publications.)
Research topics and priorities:

- Production best management practices
- Harvest timing, mechanization, storage
- Post-harvest handling
- Marketing
- Processing
- Seed production
- Varietal development to produce well adapted cultivars
Research interests

- Agronomics
  - Variety trials
  - Planting date
  - Planting methods
  - Fertilization
  - Irrigation
  - Soil types
  - Regional performance
  - Pests
    - Weeds
    - Diseases
    - Insects
Research interests

- Economics
  - Examine the profitability of raising industrial hemp using a record keeping tracking system:
    - production practices,
    - inputs,
    - yield, and
    - income and expenses.
  - Involves multiple growers/permittees.

- Enterprise budget development
Years 2 and 3

- Continue research in priority areas
- Develop varietal recommendations
  - *May be regional*
- Develop protocols for successful production
- Understand production costs and economic returns
- Document pests
- ???
2018 Clemson PSA
Research Partnerships

- Over 100 letters of intent issued
- Research costs are the responsibility of the growers
- MOUs will be developed between permittees and researchers
- For more information:
  Dr. Ted Whitwell
  864-643-7275
twhltwll@clemson.edu
SC STATE UNIVERSITY
HEMP APPLICATION PROCESS

Norma Samuel, PhD
Senior Extension Director
SC State University 1890 Extension
Hemp Research Review Committees

- Initial expression of interest received by the Hemp Research Ad-hoc Committee (HRAC)
- Farmer has initial meeting with HRAC
- HRAC reviews applications and makes recommendation to the Hemp Research Review Committee (HRRC)
- HRRC reviews applications and provide formal response to applicants
- Farmer receives Letter of Intent
- Selected applicants submit research agenda to include proposed research budget
SC State University Application Numbers

- 18 Expressed interest
- 15 Came for Initial Discussions
- 13 Completed SCSU Application
- 3 Rejected
- 2 Withdraw
- 10 Letters of Intent issued
Research Areas of Interest

- Studying and investigating marketplace opportunities for hemp products to increase the job base in the State by means of employment related to the production of industrial hemp.

- Studying and investigating methods of industrial hemp cultivation that are best suited to soil conservation and restoration.

- Conducting seed research on various types of industrial hemp that are best suited to be grown in South Carolina, including seed availability, creation of South Carolina hybrid types, and in-the-ground variety trials and seed production.

- Reporting on the estimated value-added benefits, including environmental benefits, to South Carolina businesses of an industrial hemp market of South Carolina-grown industrial hemp varieties.

- Promoting research into the development of industrial hemp and commercial markets for South Carolina industrial hemp and hemp products.
Possible Areas of Interest in the Future

- Studying and investigating marketplace opportunities for hemp products to increase the job base in the State by means of employment related to the production of industrial hemp.

- Conducting seed research on various types of industrial hemp that are best suited to be grown in South Carolina, including seed availability, creation of South Carolina hybrid types, and in-the-ground variety trials and seed production.

- Studying and investigating methods of industrial hemp cultivation that are best suited to soil conservation and restoration.

- Studying the feasibility of attracting federal or private funding for the South Carolina industrial hemp research program.

- Studying the use of industrial hemp in new energy technologies, including electricity generation, biofuels, or other forms of energy resources; the use of hemp seed oil in the production of fuels; and the production costs, environmental issues, and costs and benefits involved with the use of industrial hemp for energy.