

# Federal Research and Development (R&D) Programs

by Bill Hagy

Biofuels, Biopower, Biochemicals, and Biobased Products



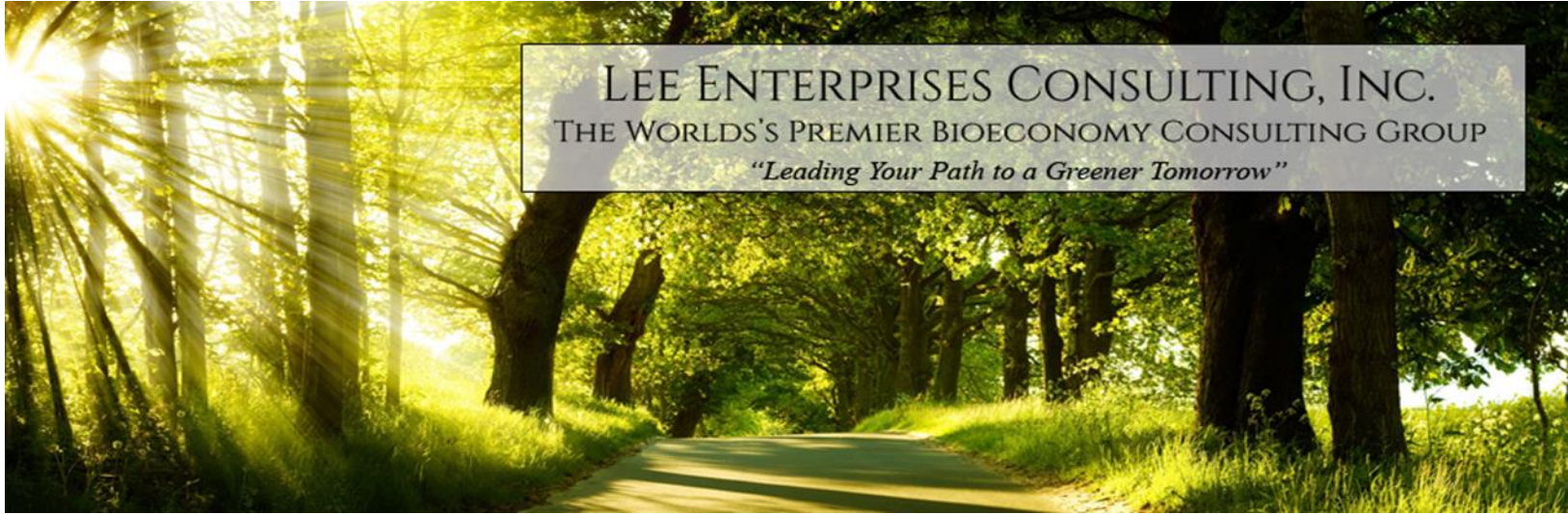
# About Bill Hagy

Accredited  
Member



## Background:

- 45 years of combined experience at United States Department of Agriculture (USDA) and as consultant identifying and accessing available federal programs/resources that support sustainable economic development
- Assistance provided to communities, businesses, non-profits, tribal governments, towns, cities, and agriculture producers.
- Assistance in U.S. and designated US territories



LEE ENTERPRISES CONSULTING, INC.  
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**Expertise:** World's largest bioeconomy consulting group - over 100 subject matter experts (SME's)- all areas of the bioeconomy.

**Approach:** Project interdisciplinary teams to meet exact needs of specific projects.

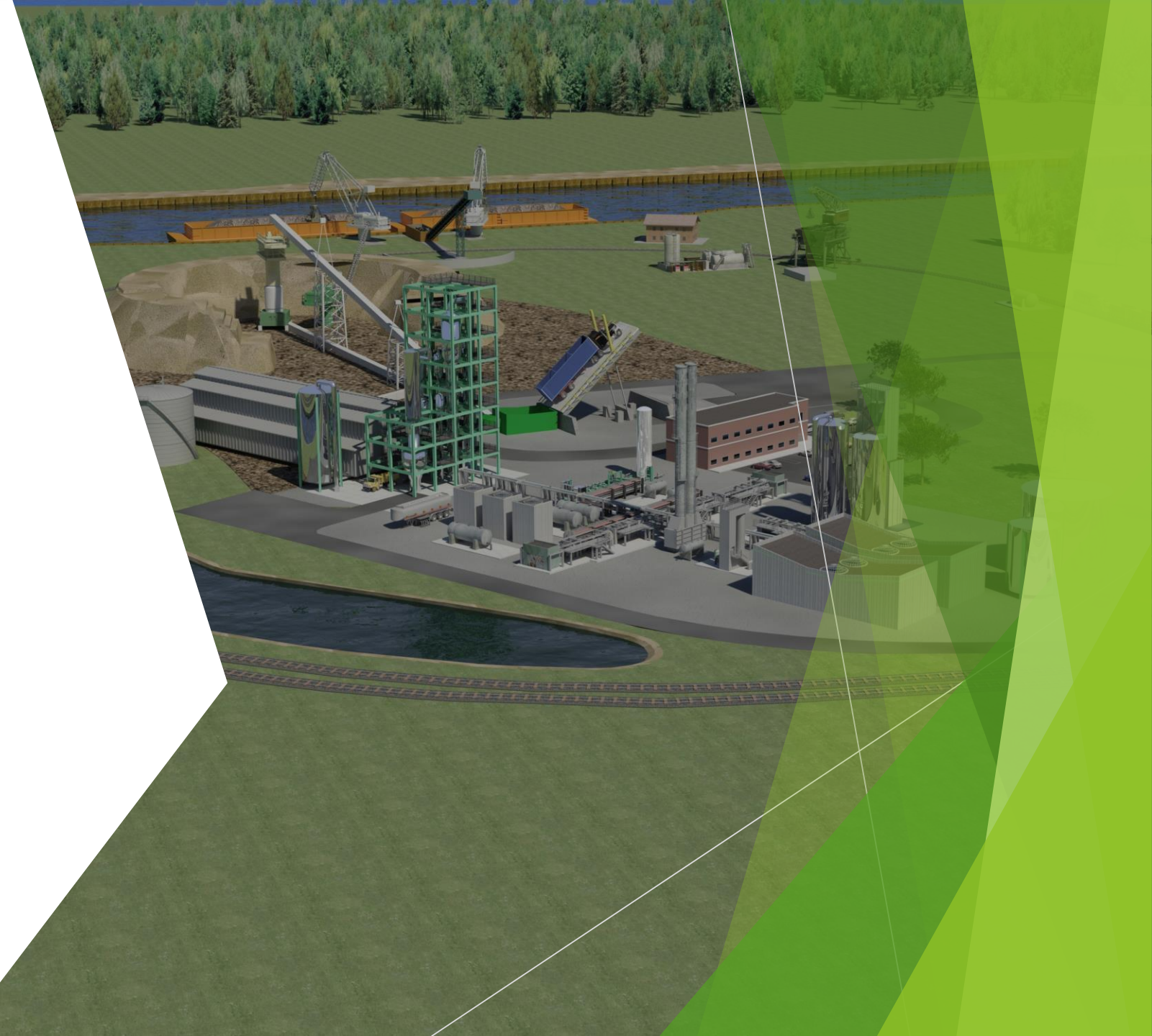
**POC:** Handle projects with one agreement and single point of contact.

**Cost Advantage:** Single POC = lower administrative costs = lower project cost.



## Federal R&D Programs Supporting Biofuels, Biopower, Biochemicals, and Biobased Products

- ▶ Biomass Research and Development Initiative (BRDI)
- ▶ National Institute of Food and Agriculture (NIFA) Programs
- ▶ Federal Small Business Innovation Research (SBIR) Programs
- ▶ Federal Small Business Technology Transfer (STTR) Programs



# Biomass Research and Development Initiative (BRDI)

- ▶ **PURPOSE:** Increase the availability of alternative renewable fuels and biobased products through Research, development, and demonstration activities
- ▶ **ELIGIBLE TECHNICAL AREAS:**
  - **Feedstocks development-** feedstocks and feedstock logistics (including the harvest, handling, transport, preprocessing, and storage)
  - **Biofuels and biobased products development-**Development of diverse cost-effective technologies for the use of cellulosic biomass and product diversification through technologies relevant to the production of a range of biobased products (including chemicals, animal feeds, and cogeneration power)
  - **Biofuels development analysis-** strategic guidance for the application of renewable biomass technologies to improve sustainability and environmental quality, cost effectiveness, security, and rural economic development; environmental impact; federal land resources assessment
- ▶ **FUNDING AVAILABILITY:** Announced on an annual basis via Notice of Funding Availability





# Federal Small Business Innovation Research (SBIR) Programs

- ▶ **PURPOSE:** Encourages domestic small businesses to engage in Federal Research and Development (R&D) that has the potential for commercialization.
- ▶ **ELIGIBLE AREAS:** Supports scientific excellence and technological innovation to build a strong national economy.
- ▶ **FUNDING AVAILABILITY:** Eleven Federal Agencies participate in the program. Each agency administers its own individual program and designates R&D topics in their annual funding solicitations.



## National Institute of Food and Agriculture (NIFA) Programs- Agriculture and Food Research Initiative (AFRI)

- **PURPOSE:** Includes research, education, and extension grants to improve rural economies and stimulate the bioeconomy
- **ELIGIBLE AREAS:**
  - Plant Health and Production, and Plant Products;
  - Animal Health and Production, and Animal Products;
  - Food Safety, Nutrition, and Health;
  - Bioenergy, Natural Resources, and Environment;
  - Agriculture Systems and Technology;
  - Agriculture Economics and Rural Communities.
- **FUNDING AVAILABILITY:** Annual Notices of Funding Availability

# Federal Small Business Technology Transfer (STTR) Programs

- ▶ **PURPOSE:** Public/private sector partnership to include the joint R&D venture opportunities for small businesses and nonprofit research institutions.
- ▶ **ELIGIBLE AREAS:** Requires the small business to formally collaborate with a research institution
- ▶ **FUNDING AVAILABILITY:** Five Federal Agencies( DOD,DOE, DHHS,NASA, and NSF) participate in the program. Each agency administers its own individual program and designates R&D topics in their annual solicitations





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