



ADO Workshop
December 12 and 13, 2017

Lab/Industry Contracting Vehicles
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Example NREL Agreements

- Technical Services Agreement
 - <\$250,000
 - Non-negotiable terms
 - No inventions anticipated
 - i.e. On-Site MBMS
- Cooperative Research & Development Agreements (CRADA)
 - Shared Resources or Funds-In
 - Terms negotiable
 - i.e. NREL/DuPont *Z. mobilis* CRADA



- <https://www.nrel.gov/workingwithus/technology-partnership-agreements.html>

PNNL/LanzaTech CRADA Example



- IP Protection
- Negotiable terms
- [https://www.pnnl.gov/business/default.aspx?topic=Cooperative Research and Development Agreement](https://www.pnnl.gov/business/default.aspx?topic=Cooperative+Research+and+Development+Agreement)

The Digest's 2017 Multi-Slide Guide to LanzaTech/PNNL Syngas-to-ATJ Fuels

August 28, 2017 | Jim Lane



The US Department of Energy initiated a project to advance a hybrid conversion technology for catalytic upgrading of biomass-derived syngas to produce Alcohol-to-Jet fuel and chemicals while meeting the cost, quality and environmental requirements of the aviation industry.

Ultimately the goal is to demonstrate that ethanol from gas fermentation is suitable for catalytic conversion to jet fuel with over 2000 hours on stream maintaining baseline performance during continuous operation, and to demonstrate that the LanzaTech/PNNL ATJ process can be economic at commercial scale, with > 50% GHG reductions.

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INL Biomass Feedstock National User Facility

- User Facility Agreement:
 - No money will be transferred to or from either party
 - Users and Participants are subject to the administrative and technical supervision and control of Contractor
 - User understands that Contractor will have sole responsibility and discretion for allocating and scheduling usage of the User Facility and equipment needed for or involved under the agreement.
 - All agreement terms and conditions are non-negotiable.
 - Work performed within agreement is nonproprietary.

- Can be coupled with other agreements to customize

- <https://bfnufl.inl.gov/SitePages/BFNUF%20Home.aspx>



Other Technical Services & Contacts:

- LBNL – ABPDU
 - Concept development and beyond
 - <http://abpdu.lbl.gov/>
- Oak Ridge National Laboratory
 - Materials, Fuels testing
 - <https://www.ornl.gov/partnerships/industrial-partnerships>
- Argonne National Laboratory
 - The Greenhouse gases, Regulated Emissions, and Energy use in Transportation Model (GREET)
 - <http://www.anl.gov/technology/partnerships>

