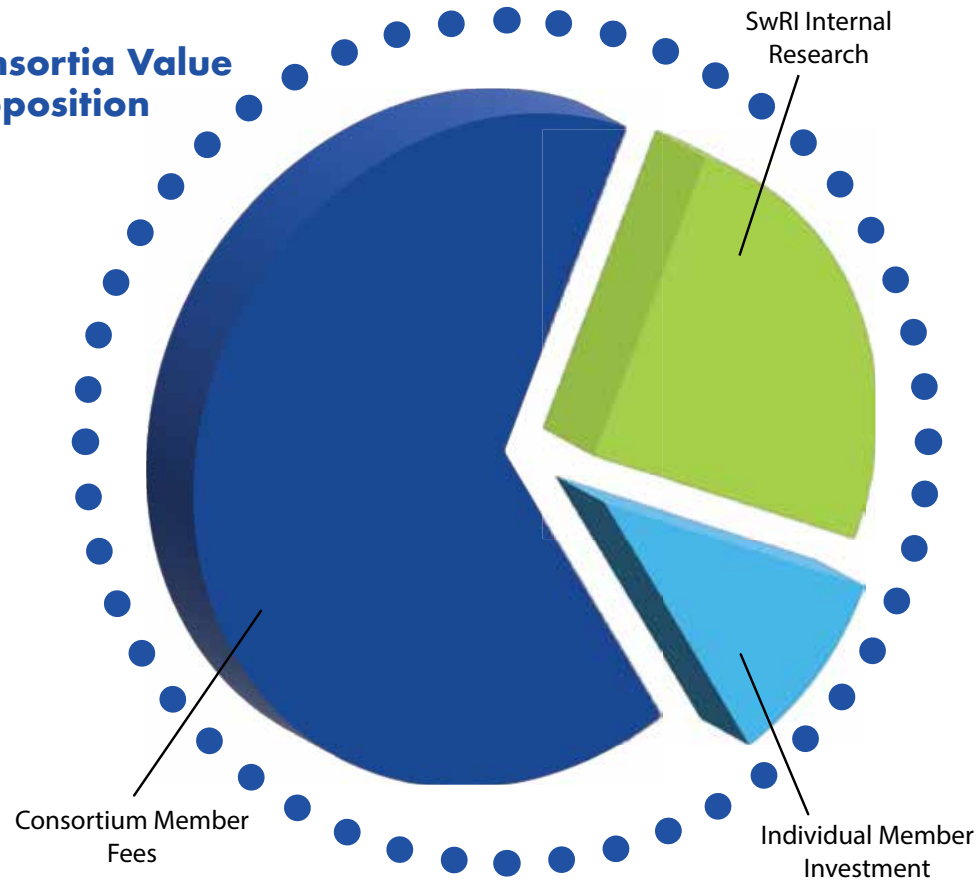


TURBOCHARGING R&D

For nearly 40 years, SwRI has developed and managed collaborative programs that enable clients to pool their research and development dollars for pre-competitive research through consortia and joint industry programs (JIPs). Members gain more benefit together than typically possible through individual research and can apply advances to their products and services. SwRI also supports consortia with internally funded research. Current consortium topics range from automotive to aerospace, oil and gas, robotics, batteries and energy storage system applications.

Consortia Value Proposition



NGL

NEXT GENERATION LIQUEFACTION

- 2016–present
- 2 phases
- 2 clients, 4 research entities, 3 independent consultants
- 2 journal articles published, 17 conference papers
- 9 oil & gas industry sponsors



EAGLE FORD JIP

- 2012–2017
- 2 phases
- 10 oil & gas sponsors
- 19 articles published

PERMIAN BASIN CONSORTIUM

- 2017–present
- 3 phases
- 9 oil & gas industry sponsors

SMART CALC

SOUR MEASUREMENTS IN AUTOCLAVE FOR RELIABLE THERMODYNAMIC CALCULATIONS

- 2023
- Currently in phase 1 of 2
- 4 members



NASGRO

- 2001–present
- 8 3-year cycles
- 25 members
- ~10 versions released

NPSS

NUMERICAL PROPULSION SYSTEM SIMULATION

- 2013–present
- 12 members
- 3 software development areas
- 12 papers



BESS

BATTERY ENERGY STORAGE SYSTEM FOR ELECTRIC GRID JIP

- 2021–2023
- 5 members
- 1 patent application
- 3 papers

EVESE

ELECTRIFIED VEHICLE AND ENERGY STORAGE EVALUATION

- 2020–present
- 14 members total, 10 current
- 3 papers

AC2AT

ADVANCED COMBUSTION CATALYST & AFTERTREATMENT TECHNOLOGIES

- 2014–2022
- 2 phases
- 12 members in AC2AT, 5 members in AC2AT-II
- 2 articles published

HEDGE

HIGH-EFFICIENCY DILUTE GASOLINE ENGINE

- 2005–present
- 5 phases
- 24 members total, 45+ patents/pending
- 90+ papers

CHEDE

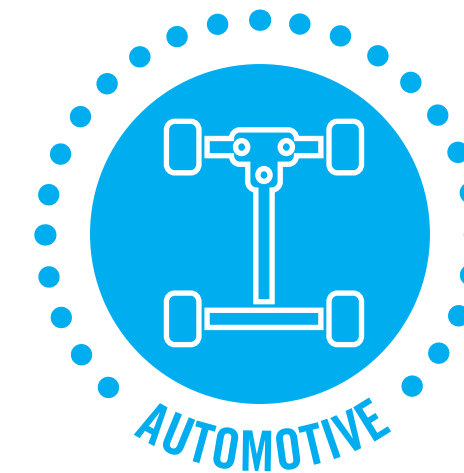
CLEAN HYBRID ELECTRIC DIESEL ENGINE

- 1991–present
- 9 phases
- 40 members total, 24 current
- 34 patents
- 65 papers

AFEV

ADVANCED FLUIDS FOR ELECTRIFIED VEHICLES

- 2020–present
- 26 members
- 5 research tasks



ROS-INDUSTRIAL

- 2013–present
- 92 members
- 8 tools

