(385)202-3104 www.rd-advantage.com contact@rd-advantage.com

IRC §41—CREDIT FOR INCREASING RESEARCH ACTIVITIES

The R&D tax credit is a dollar-for-dollar credit against taxes. It is largely determined by **Qualified Research Expenses** (QREs) which are associated with **Qualified Research Activities** (QRAs), per the 4-part test below. These expenses are typically the following:

- Wages W-2 Box 1, for employees which participate in QRAs
- **Supplies** Tangible and used up in the QRAs
- **Contract Research** Expenses to contractors which perform research on your behalf, where you carry the financial risk and obtain rights of any discoveries

ACTIVITIES TYPICALLY QUALIFY WHEN THEY MEET THE FOLLOWING 4-PART TEST:

1. TECHNOLOGICAL IN NATURE—ACTIVITIES MUST RELY UPON THE "HARD" SCIENCES:

• Engineering

Mathematics

ChemistryPhysics

- Computer Science
- Biology
- **2. PERMITTED PURPOSE**—ACTIVITIES MUST BE INTENDED TO *DEVELOP A NEW OR IMPROVE UPON* AN EXISTING BUSINESS COMPONENT:

BUSINESS COMPONENTS

- Product Invention
 - Technique

Software

Formula

Process

•

•

<u>IMPROVEMENTS</u>

• Quality

•

Performance • Cost

Reliability

Functionality

3. TECHNICAL UNCERTAINTY—ACTIVITIES MUST DEMONSTRATE ATTEMPTS TO ELIMINATE TECHNICAL UNCERTAINTIES BY *DISCOVERING INFORMATION* RELATING TO:

- Capability: Can this business component be developed?
- Methodology: How can/should this business component be developed?
 - Design: What is the appropriate design of the business component?

4. PROCESS OF EXPERIMENTATION—ACTIVITIES MUST DEMONSTRATE ALTERNATIVES HAVE BEEN EVALUATED AND *SUBSTANTIAL EXPERIMENTATION* HAS TAKEN PLACE:

- Modeling
- Simulation
- White-boarding
- Hypothesis Testing
- Trial and Error
- Prototypes

Non-Qualified Activities:

- Research conducted outside the U.S.
- Routine data collection
- Reverse engineering
- Efficiency surveys, management functions, or market research
- Research after commercial production
- Routine quality control, ordinary testing or inspection
- Research related to taste, style, or aesthetics
- Adaption of an existing business component for a particular customer

