

R&D TAX CREDIT STUDIES

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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
- Chemistry

Computer Science

- Mathematics
- Physics

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

BUSINESS COMPONENTS

- Product
- Invention
- Process
- Technique
- Formula
- Software

IMPROVEMENTS

- Quality
- Reliability
- Performance
- Cost
- 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
 - White-boarding
- Simulation
- 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