

## RESEARCH TYPE AND FACILITIES AND ADMINISTRATION (F&A) COST DETERMINATION

**Basic Research:** Basic research is to gain more comprehensive knowledge or understanding of the subject under study without specific applications in mind. In industry, basic research is defined as research that advances scientific knowledge but does not have specific immediate commercial objectives, although it may be in fields of present or potential commercial interest.

**Applied Research:** Applied research is aimed at gaining the knowledge or understanding to meet a specific or recognized need. In industry, applied research includes investigations oriented to discovering new scientific knowledge that has specific commercial objectives with respect to products, processes or services.

**Development Research:** Development research is the systematic use of knowledge or understanding gained from research directed toward the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes.

### Examples of Types of Research

Basic Research	Applied Research	Development Research
A researcher is studying the properties of human blood to determine what effects coagulation.	A researcher is conducting research on how a new chicken pox vaccine affects blood coagulation.	A researcher is conducting clinical trials to test a newly developed chicken pox vaccine for young children.
A researcher is studying the properties of molecules under various heat and cold conditions.	A researcher is investigating the properties of particular substances under various heat and cold conditions with the objective of finding longer-lasting components for highway pavement.	A researcher is working with state transportation officials to conduct tests of a newly developed highway pavement under various types of heat and cold.
A researcher is studying the heart chambers of various fish species.	A researcher is examining various levels of a toxic substance to determine the maximum safe level for fish in a stream.	A researcher has a contract with the US Government to design a new stream monitoring system that will incorporate the latest research findings on toxicity levels for fish.

**Instruction and Training:** All activities that are part of an institution's instruction program, including activities for credit and noncredit courses, for academic, vocational, and technical instruction, for remedial and tutorial instruction, and for regular, special, and extension sessions. Activities for departmental research and public service that are not separately budgeted should be included in this classification.

**Other Sponsored Activities:** Any activity that does not fall into Research or Instruction & Training. These activities can include: Academic Support, Institutional Support, Operation and Maintenance of a Plant, Scholarships and/or Fellowships, Student Services, Public Service, etc.