

Core Facilities & Shared Instrumentation

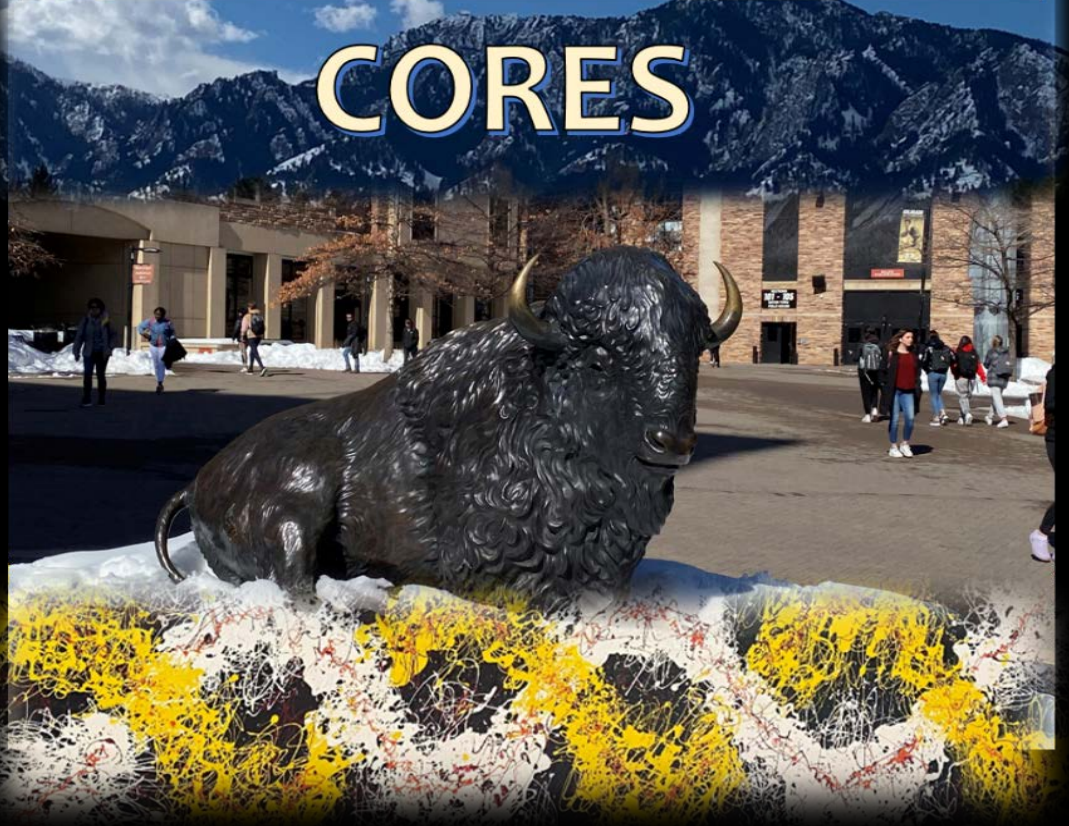
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University of Colorado Boulder



Research & Innovation Office
UNIVERSITY OF COLORADO **BOULDER**

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CORES



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Research & Innovation Office

 [tinyurl/sharedinstrumentation/](https://tinyurl.com/sharedinstrumentation/)



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Key Elements of a Core Facility



Users

- Serve Broad user base
- Provide equitable access to all interested users
- Training and education



Rates

- Operate as a recharge unit
- Services provided at approved, competitive rates



Management

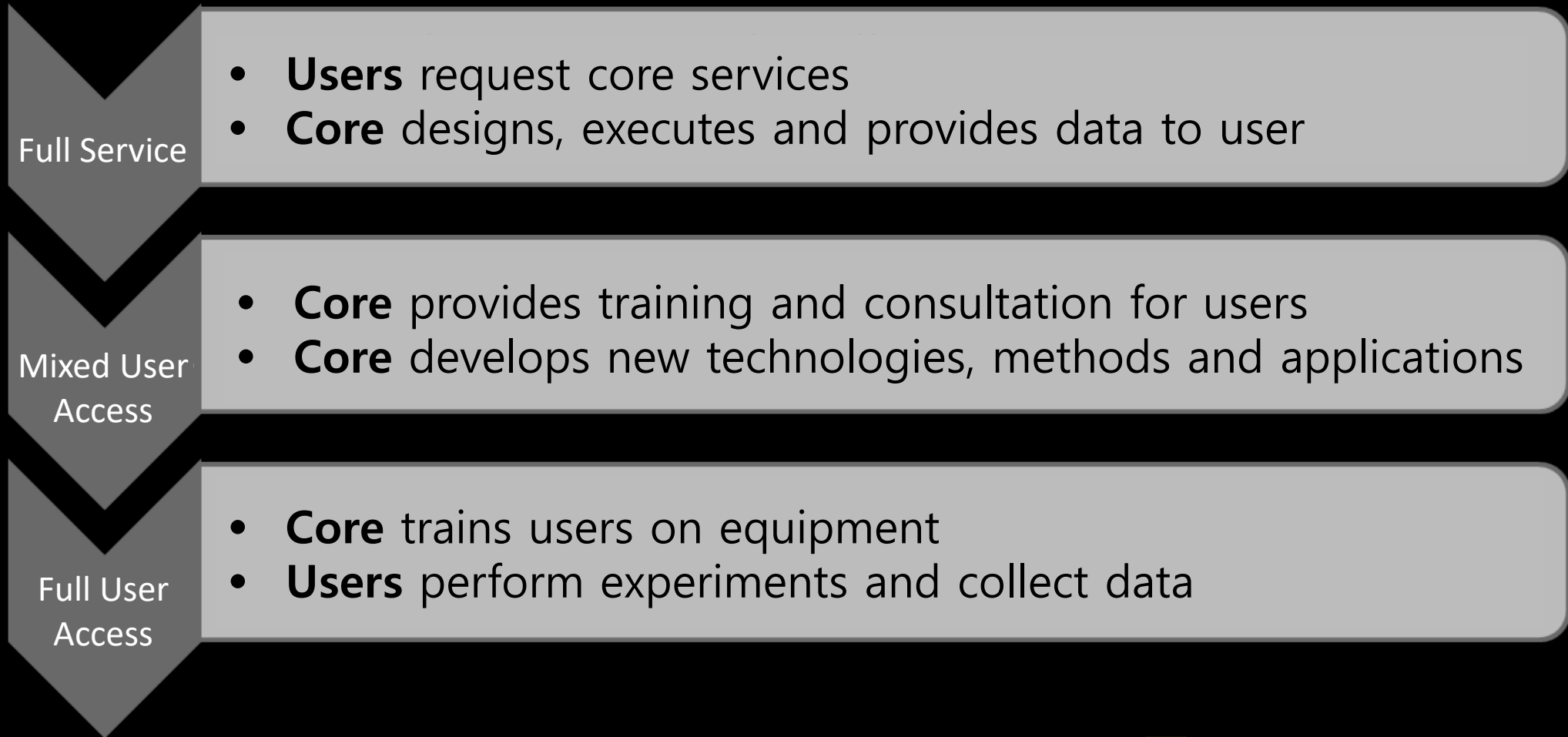
- Oversee operations & strategic direction



Not All Core Facilities Are The Same



Core Models



Working with Core Facilities

Primary Responsibilities

Research

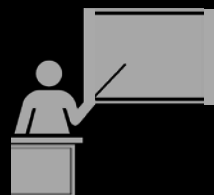
- Experimental design and data analysis
- Grant writing

Training and Mentoring

- Workshops, tutorials and teaching
- Mentoring of facility users
- Consulting external and internal users

Maintenance of facilities

- Instrument upkeep and repairs



Secondary Responsibilities

University asset managers

Managing stakeholders

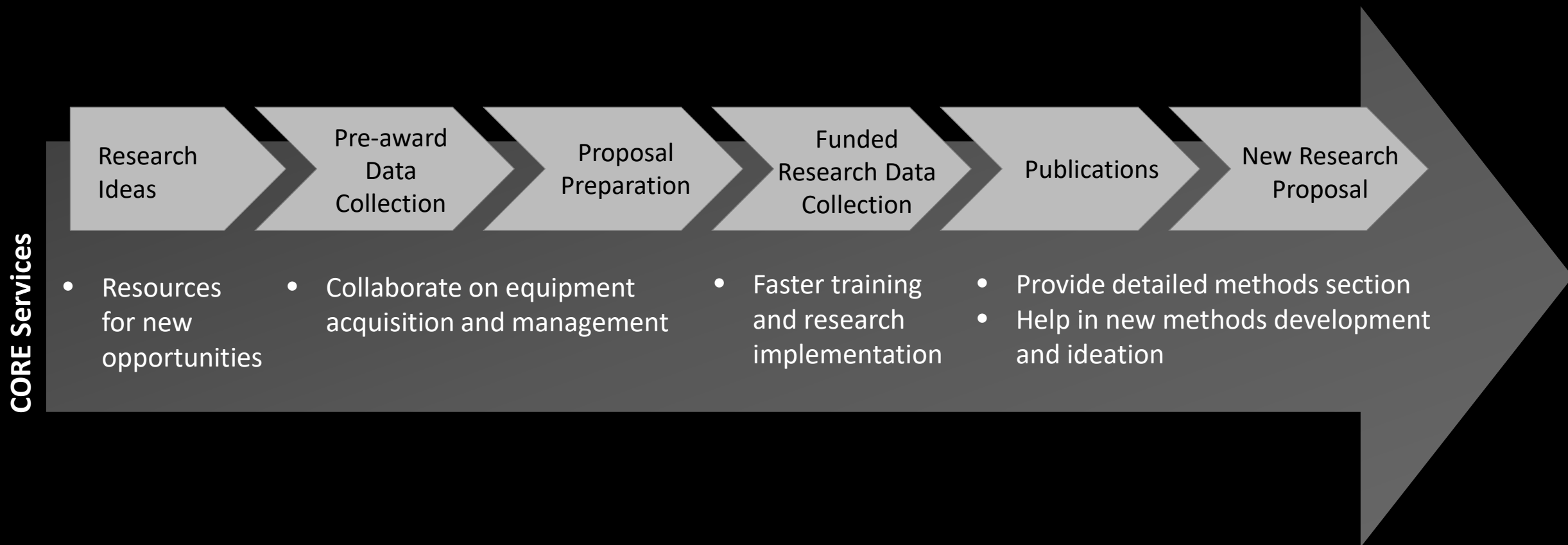
- Effective conflict resolution

Operations management

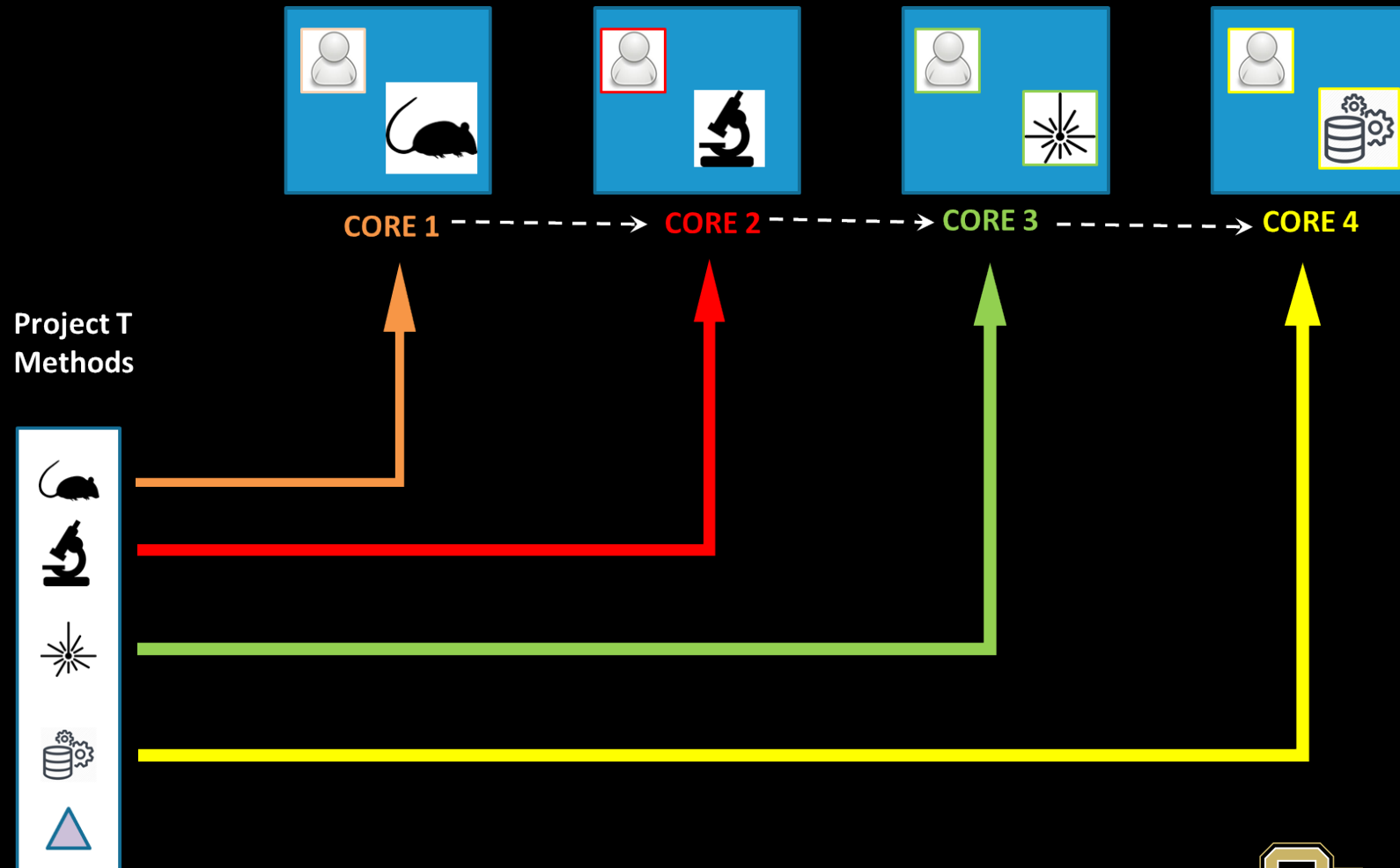
- Budgeting, accounting, marketing, etc.



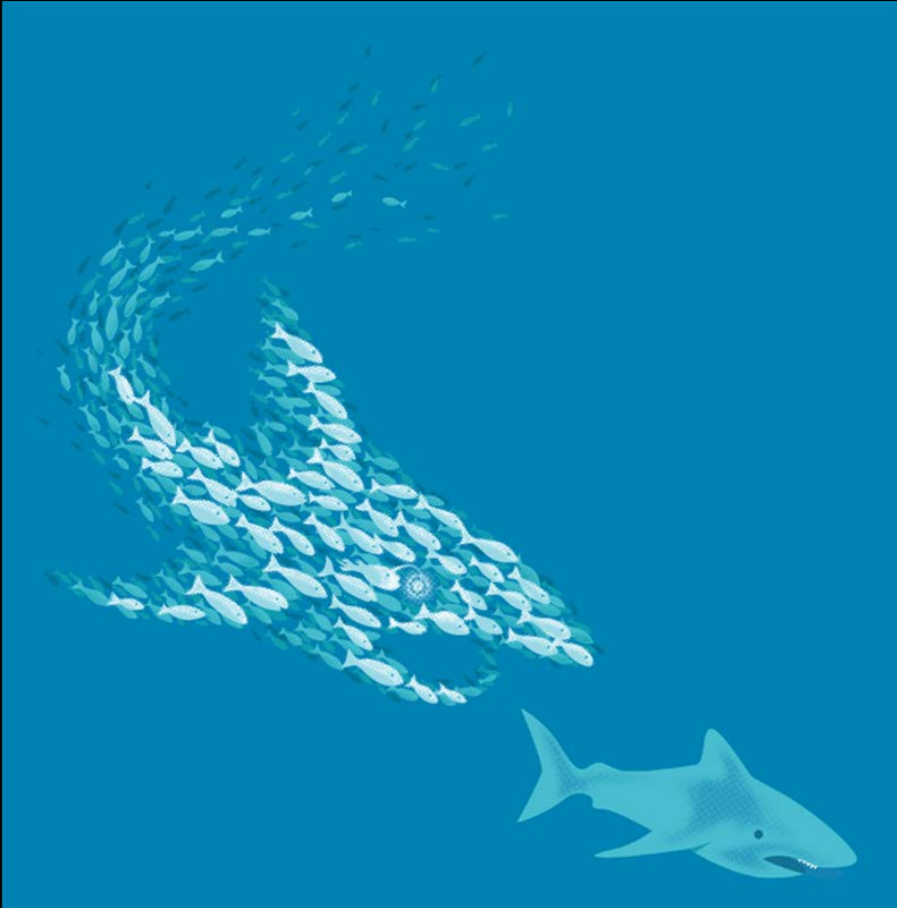
Core Facilities in the Research Lifecycle



Workflows that Connect Core Facilities



Integrated Core Facility Platform



Mission

- Purposeful integration of core facilities in the CU research ecosystem

Value

- Clear visibility of ALL research capabilities
- Multiplies capacity, capabilities and possibilities = RESILIENCE



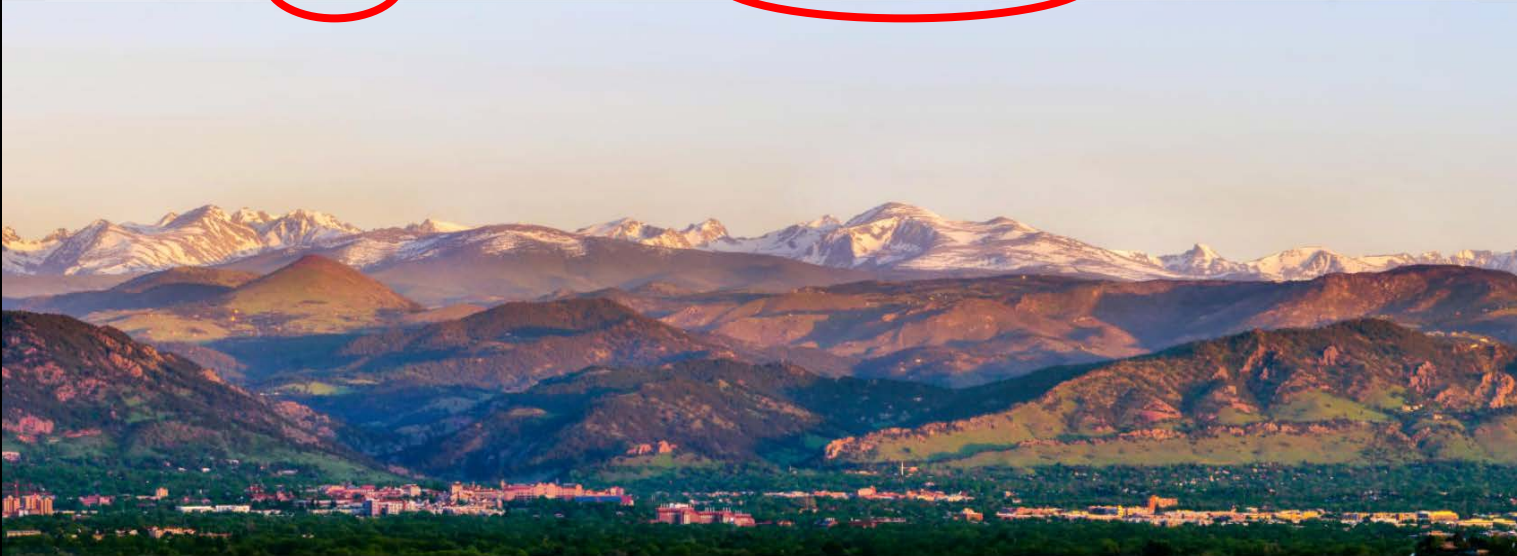
Core Facilities Resources

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Shared Instrumentation Network

RESEARCH AND INNOVATION OFFICE

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Welcome to the University of Colorado Boulder's **Shared Instrumentation Network**, your resource for equipment, instrumentation, and services to help you achieve your research goals. This is a resource for the entire CU Boulder campus that enables fundamental and applied research, and promotes interdisciplinary collaboration across our many departments, institutes and centers.

CU Boulder Core Facility Assistance Grant Program (CFAG) – FY20

The Research & Innovation Office (RIO) Core Facility Assistance Grant (CFAG) Program seeks to enhance operations within Core and Shared Instrumentation Facilities on the CU Boulder campus. The Program has limited funds to be awarded in the following categories:

[tinyurl/sharedinstrumentation/](https://tinyurl.com/sharedinstrumentation/)



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Richard Feynman – on Physics 101

“If, in some cataclysm, all of scientific knowledge were to be destroyed, and only one sentence passed on to the next generation of creatures, what statement would contain the most information in the fewest words?”

- I believe it is the atomic hypothesis that *all things are made of atoms — little particles that move around in perpetual motion, attracting each other when they are a little distance apart, but repelling upon being squeezed into one another.*

In that one sentence, you will see, there is an enormous amount of information about the world, if just a little imagination and thinking are applied.”



CORE Facilities – The Take Home Statement

“If, in some cataclysm, all of scientific knowledge were to be destroyed, and only one sentence passed on to the next generation of creatures, what statement would contain the most information in the fewest words about Core Facilities?”

I believe it is the concept of Team Science – *the coming together of expert scientists and researchers to get the best outcomes from cutting edge research technology.*

In that one sentence, you will see, there is an enormous amount of information about the world, if just a little imagination and thinking are applied.”





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