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- The ARC Stockroom carries biological & molecular research products from 15 vendors.
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Contact us for special orders and inquiries:



arc_stockroom@colostate.edu



Our online catalog and information:
research.colostate.edu/bio/freezer-program/



ANALYTICAL RESOURCES CORE
COLORADO STATE UNIVERSITY

VISION

We aim to foster a collaborative and inclusive learning and service environment where researchers can obtain valuable data and insights, driving scientific progress and new discoveries.

Follow us on social media:



@ARCatCSU



Analytical Resources Core at CSU



arc_csu



arc_csu@colostate.edu



Scan the QR code or follow the link to learn more:

research.colostate.edu/arc/



VICE PRESIDENT FOR RESEARCH
COLORADO STATE UNIVERSITY



COLORADO STATE UNIVERSITY

ANALYTICAL RESOURCES CORE



Enabling cutting-edge STEM research and development programs by providing access to analytical instrumentation, expert guidance, research training and services to CSU and the broader community.

research.colostate.edu/arc/

APPLICATIONS & EDUCATION



MOLECULAR ANALYSIS



- purity analysis
- black carbon quantification
- spin/radical characterization
- small molecule structure elucidation
- macromolecular characterization (polymers, glycans, glycolipids, proteins, oligonucleotides, etc.)
- chromatographic separations and fraction collection of mixtures
- chemistry of dissolved natural organic matter
- metabolic isotope tracing and metabolic flux
- analysis of metals and non-metals, isotopes and metals speciation
- time-resolved fluorescence measurements
- excited state lifetime determination
- optical analysis in the infra-red, visible, or ultraviolet light range

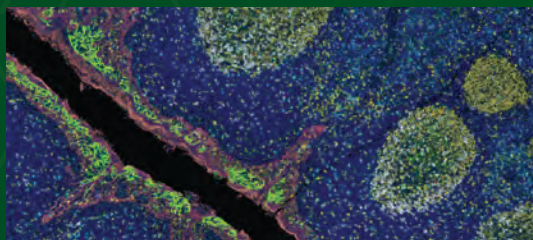
SURFACE ANALYSIS



- composition and chemical state information of surfaces
- thin film optical properties and thickness
- surface roughness, hydrophilicity, and feature profiling



Don't see what you need on this list? Contact us at arc_csu@colostate.edu for inquiries and consultations.



IMAGING



- near atomic and atomic-level imaging of structure and morphology
- elemental analysis mapping of surfaces
- live cell and time-lapse imaging
- automated slide imaging
- negative staining electron microscopy
- fluorescence and multiphoton microscopy



MATERIALS ANALYSIS



- nanoparticle size and charge
- colloidal dispersion stability
- polymer morphology
- stress and strain of thin films
- purity, composition and thermal stability of materials
- variable temperature magnetic and electrical properties
- quantitative and qualitative phase analysis



OMICS



- metabolomics and lipidomics: quantitative and qualitative profiling of small molecules, metabolites, and biomarkers in wastewater, soils, biological tissues and fluids, etc.
- proteomic analyses including:
 - post-translational modifications
 - protein identification
 - peptide sequencing
 - protein crosslinking for structure analysis
 - metaproteomics (community and microbiome proteomics)
 - top-down proteomics
 - glycoproteomics
 - bacterial identification of isolates
- adductomics
- ionomics (elemental composition of organisms)

EDUCATION & TRAINING

The ARC offers students and researchers valuable exposure to high-end instrumentation and data collection through hands-on training, self-operation of instruments, method development assistance, specialized workshops, and student and postdoctoral training fellowships. We assist in academic coursework and offer broad technology education through the ARC monthly seminar series.

