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**Mission Statement:** To provide high quality analytical services to support research done by FAU faculty and their collaborators. The lab also places a strong emphasis on providing education and research opportunities for both undergraduate and graduate students.

### Analytical Capabilities:

- Water analysis
  - nutrients
  - major ions
  - metals
  - water isotopes
- Soil analysis
  - particle size
  - pH
  - electrical conductivity
  - organic matter

In addition to water and soils analysis we have the capability of analyzing some industrial wastes and digests of rocks, biologic and engineered materials.

### Education:

We welcome inquires about using the lab for educational purposes, including

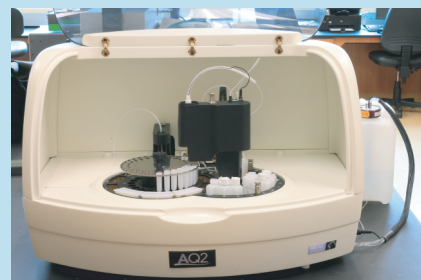
- directed independent studies
- class projects
- class tours
- graduate research

### Major Instrumentation:



Inductively Coupled Plasma Optical Emission Spectrometer

*Elemental analysis of a variety of liquid matrices at the part per billion level*



Discrete Analyzer

*Automated colorimetric analysis for a variety of environmental parameters including nitrate, nitrite, ammonia, orthophosphate, total phosphorous, and sulfate*



Water Isotope Analyzer

*Analysis of stable isotopes of water in liquid water or water vapor*