



## Two available Ph.D. positions in Trace Element Molecular Geochemistry within the STARLAB – Central Michigan University – USA

### Research Focus

- Investigating the nexus Trace Elements – Iron (II) Minerals – Organic Matter in sedimentary records
- Paleo redox proxy development (Mo, Re, U, V, etc.)
- Ultra-trace analysis
- Nontraditional isotope ratio measurements
- Characterizing trace element speciation via synchrotron techniques

### Main Ph.D. advisor

**Dr. Anthony Chappaz**  
Professor of Geochemistry  
Director of the STARLAB  
Earth and Atmospheric Sciences  
Central Michigan University  
MI 48859 USA  
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**Starting date:** Summer/Fall 2022 (flexible)

**Duration:** 4 years (fully funded via a combination of research and teaching assistantships)

### Requirements

Successful candidates will have a M.S. degree in Geochemistry, Environmental Chemistry, Analytical Chemistry, Biogeochemistry, Marine Chemistry or similar disciplines. Exceptional candidates with only B.S. degree might be considered. Candidates must demonstrate excellent communication skills (written and oral) and speak English fluently. *Experience with one of these areas will be considered an asset:* Trace metal clean room, ICP-MS, MC-ICP-MS, experimental geochemistry, sediment digestion, column work, IC-ICP-MS, LA-ICP-MS, XAFS or any prior research experience focusing on trace element geochemistry.

### Pre-application process

All candidates interested in joining the STARLAB must first contact Dr. Anthony Chappaz ([anthony.c@cmich.edu](mailto:anthony.c@cmich.edu)) to state their interest in the Ph.D. positions and join an updated CV. After an initial assessment of all applications, a selection of candidates will be invited for a chat via online platforms.