

Environmental Mineralogy
Georgia State University

The Department of Geosciences at Georgia State University (GSU) anticipates hiring a tenure-track faculty member at the Assistant Professor level pending budgetary approval, whose research is in an area of Environmental Mineralogy. We seek a colleague who uses analytical or numerical techniques to understand aspects of mineral behavior in natural or human environments. Possible research areas include, but are not limited to, asbestos mineralogy and toxicity; airborne or aqueous heavy metals; redox-sensitive contaminants; geomicrobiology; medical geology; sorption, and water-rock interactions. The ideal candidate will effectively use available analytical or computational facilities on campus, collaborations, and national multi-user facilities to develop a nationally recognized research program aligned with the GSU mission and resulting in extramural funding (e.g. NSF, DOE) and peer-reviewed publications in prominent journals. Departmental facilities include petrography and cathodoluminescence, XRD, WD-XRF, field-portable ED-XRF, IC, AA, ICP-MS, K-Ar/MS, and an anaerobic experimental chamber. Electron microscopy (SEM/EDX, TEM) is available through the Biology Core Facility, and other facilities are available through the Departments of Biology, Chemistry, and Physics & Astronomy. GSU also hosts powerful advanced supercomputing processors and clusters, as well as SURAGrid and World Community Grid. The candidate will teach an undergraduate course in mineralogy for geologists, share in introductory course offerings, teach a course in his/her specialty, and develop a strong record of instruction at the undergraduate and graduate level including direction of graduate student research. Ph.D. in an appropriate discipline is required, and post-doctoral experience is preferred. Some preference will be given to candidates whose research complements ongoing areas of research in the department (e.g. Community Soil Air Initiative housed in Geosciences).

Candidates should provide a letter detailing their instructional interests, evaluations as appropriate, and goals, the names and email addresses of at least three references, and curriculum vitae to Dr. Seth E. Rose, Chair, Environmental Mineralogy Search Committee, Department of Geosciences, Georgia State University, P.O. Box 4105, Atlanta, Georgia 30302-4105. To ensure full consideration, applicants should send their materials by March 15, 2012. The position is available August 13, 2012 and is open until filled. GSU is one of the research universities of the University System of Georgia, and the Department currently has 16 faculty teaching and conducting research in fields of geography and geology, with bachelor's and master's degrees in Geography and Geology, and a Ph.D. in Chemistry (Geology Specialization). An offer of employment will be conditional upon background verification. Georgia State University is a Research University of the University System of Georgia and is an EEO/AA employer.