Teacher Enhancement and Curriculum Development Project

Minerals! A Gateway to a Love of Science

A.E. SEAMAN MINERAL MUSEUM OF MICHIGAN TECH

The A. E. Seaman Mineral Museum is

looking for two teachers to work with to develop engaging curricular materials and activities to enhance student

learning experiences before, during and after field trips to the museum.



Summer 2021:

The two teachers will collaborate together and work closely with museum staff and other experts to develop a draft curriculum targeted at 4th through 8th graders. To accomplish this both teachers will participate in:

- A two-week (10-day) workshop at the A. E. Seaman Mineral Museum in June 2021
- Ongoing work throughout the summer to complete the draft curriculum

School Year 2021-2022:

- Pilot the curriculum and associated field trips with 4th through 8th grade students
- Provide a follow-up assessment and reflection of the students' and teacher's experience

Benefits:

- Teacher Compensation (up to $3000)
- Travel and admission costs for class field trip, and gift shop discount (10%)
- Resources for curriculum development and classroom activities
- Unique professional learning experience with museum experts

Who Should Apply:

- Teach 4th-8th grade students in Baraga, Houghton, Keweenaw, and Ontonagon Counties
- Have school administration support
- Have a passion for offering active learning experiences to their students
- Have personal interest in minerals, geology, or earth/environmental science
- Eager to collaborate with others

To Apply, Submit the Following By April 30, 2021:

- Complete this Application Form: https://forms.gle/4bSuYBgcVw97sRKR8
- Send a resume or curriculum vitae and a letter of support from your school principal to: museum@mtu.edu.
- Questions: museum@mtu.edu

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DETAILED PROJECT DESCRIPTION

Children's natural curiosity about rocks and minerals provides an opportunity to open a door to nurture a love and understanding of science. The A. E. Seaman Mineral Museum seeks to expand and enhance its educational and outreach activities for students, particularly at the older elementary-school to middle-school grade levels, by developing curricula and activities centered on minerals and that use the resources of the museum. While the museum can supply content expertise and resources, involvement of teachers will be central to the development of a successful and effective curriculum for students.

To begin this project, the museum seeks to recruit two teachers to partner together and work with us on site for two weeks (10 days) in June 2021. The teachers will be able to explore the resources of the museum and its staff, work with outside consultant curriculum experts, and begin development of a curriculum for students in a target range of grades 4 through 8. Teachers would further develop the curriculum over the summer and then plan to use the curriculum and bring students to the museum during the 2021-22 academic year. The curriculum to be developed should include activities that would be accomplished before, during, and after a visit to the museum. Activities can include development and use of web-based resources, and could also include the use of specimens the museum can share with the teachers and perhaps with students.

The Museum Will Supply:



- Compensation for each participating teacher:
  - ◊ $1,000 to be paid after the first two weeks of participation and delivery of a draft curriculum framework to the museum
  - ◊ $1,000 to be paid at the end of summer after delivery of a detailed pilot curriculum.
  - ◊ Additional $1,000 to be paid after the teachers bring students to the museum, use the pilot curriculum, and supply an assessment report to the museum (2021-2022 academic year). Pilot implementation and assessment will be integral for refining the curriculum and planning next stages.
- Resources to for web-site development.
- Access to the museum, its staff and other available resources.
- Rock and mineral specimens for use in the school.
- Gift shop discount (10%) for participating teachers through June 2022. The teacher's students will also receive a 10% discount during their fieldtrip to the museum as a class.
- Transportation costs for participating teachers and their students for the planned field trips.
- Free museum admission for participating teachers and their students for planned instructional visits.
- Travel and substitute-teacher expenses to support student-visits to the museum during the project.
- Commit to all aspects of the project, including the 10-day on-site workshop, curriculum development, pilot use of the curriculum and its assessment.