

**Agency Name**

NC Department of Environmental Quality

**Project Sponsor Name**

David Miller

**Agency Division**

Division of Energy, Mineral, and Land Resources

**Project Sponsor Email**

David.miller@ncdenr.gov

**Work Location**

Hybrid

**Agency Website**

<https://deq.nc.gov/about/divisions/energy-mineral-and-land-resources>

**Pay Rate**

\$20

**Hours**

5/10 hours a week for a total of 80 hours

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The Division of Energy, Mineral, and Land Resources seeks to promote the wise use and protection of North Carolina's land and geologic resources. The division regulates and provides technical assistance related to mining, dams, onshore wind energy, sediment and erosion control, and stormwater management and houses and promotes the NC Geological Survey.

**Project Description and Expectations**

Education and outreach are an important part of regulatory technical assistance with a goal of providing technical information in an understandable format to a variety of audiences and knowledge levels. Mining activity and its regulation by the Division is often misunderstood among the general public.

This micro-internship will assist Mining Program staff in developing education and outreach materials for posting on the Division website. Through internet research, examples from neighboring states, and field observations, this position will assist in developing materials that describe complex topics such as blasting, sand and rock extraction, dust control, industrial stormwater, erosion control, groundwater protection, and environmental permitting related to mining operations. The materials will cater to various knowledge levels from K-12 students to the general public. Materials may include graphics, written word, and videos where appropriate.

**Major Tasks to be Performed**

- Research and gather technical information related to mining activities including blasting, sand and rock extraction, dust control, industrial stormwater, erosion control, groundwater protection, and environmental permitting.
- Distill technical information into a usable format for a variety of audiences through the use of written, visual, and video formats.

- Assist with website design.

**Desired Knowledge and Skills of the Intern**

- Familiarity with basic engineering or environmental concepts.
- Proficient use of word processing, spreadsheet, and database applications.
- Ability to work remotely to conduct internet research.
- Good organizational and technical writing skills.

**Minimum Education and Experience**

College student enrolled in Durham Technical Community College pursuing one of the following areas of study: engineering, environmental science, web design, and/or education. The ideal candidate must have a minimum of 30 credit hours, can work remotely with at least two weekly virtual check-ins with the project sponsor, and be available for scheduled field visits to mining operations

**Final Product Anticipated**

Education and outreach materials for posting on the Mining Program website.

**Student Learning Objectives**

Basic operation and engineering principles associated with mining, environmental permitting of mining operations, development of educational and outreach materials, and technical writing.

**Travel Requirements**

Local travel to the Raleigh-Durham area.

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