

# Department of Mining Engineering, M.S.Min.E., Ph.D.

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## Degrees Offered

- Masters of Science, Mining Engineering (M.S.Min.E.)
- Masters of Science, Engineering (M.S.E.)
- Doctor of Philosophy, Mining Engineering (Ph.D.)

## Departmental Overview

The objective of the master's of science in mining engineering (M.S.Min.E.) program is to equip students to investigate and develop solutions to advanced mining engineering problems. This program provides students the technical knowledge and research experience needed to address the most challenging contemporary issues within a specialized area of study.

Moreover, the objective of the Ph.D. program in mining engineering is to educate students to the highest level of technical and research performance within the minerals profession. Graduates of this program not only possess the requisite technical skills, but they also have the capability to actively contribute to the scholarly body of knowledge through independent research. These graduates pursue careers in industry, government agencies, and academia.

## Areas of Research

The expertise of the current faculty members broadly spans many traditional mining sub-disciplines. Active research areas include surface and underground mining, rock mechanics and ground control, mine health and safety, mineral/coal processing, mine pollution control, and mine ventilation.

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## FACULTY

### CHAIR

- Qingqing Huang - Ph.D. (University of Kentucky)  
Mineral Processing, Coal Preparation, Explosion Mitigation, Extractive Metallurgy

### ASSOCIATE PROFESSOR

- Qingqing Huang - Ph.D. (University of Kentucky)  
Mineral Processing, Coal Preparation, Explosion Mitigation, Extractive Metallurgy

### ASSISTANT PROFESSOR

- Amy McBrayer - Ph.D. (South Dakota School of Mines and Technology)  
Mine Planning, Operations Research, Mine Health and Safety, and Mining Engineering Education
- Deniz Talan - Ph.D. (West Virginia University)  
Mineral and metallurgical processing, critical mineral extraction, and environmental aspect of processing technologies
- Deniz Tuncay - Ph.D. (West Virginia University)  
Rock mechanics, Mine ground control, Mine ventilation

## Admissions for 2026-2027

### MASTERS ADMISSIONS

To be eligible for admission into the Master of Science in Mining Engineering degree program, a candidate must fulfill the following requirements:

- A grade point average (GPA) of 3.0/4.0 or above from an ABET-accredited B.S. in Mining Engineering program or its equivalent.
- A statement of purpose.
- At least three letters of recommendation, one of which must be from the applicant's previous thesis advisor or an academic equivalent. All letters of recommendation should evaluate the student's potential for performing independent, masters or doctoral-level research.
- Applicants who do not have an ABET-accredited B.S. degree are required to submit GRE scores.
- International applicants must meet the WVU requirement of English language proficiency (<https://graduateadmissions.wvu.edu/information-for-international-students/>).

## DOCTORAL ADMISSIONS

To be eligible for admission into the doctoral program, a candidate must fulfill the following requirements:

- A grade point average (GPA) of 3.0/4.0 or above from an ABET-accredited B.S. in Mining Engineering program or its equivalent. Additionally, all Ph.D. applicants must have earned an M.S. degree in Mining Engineering with a GPA of 3.0 or higher.
- A statement of purpose.
- At least three letters of recommendation, one of which must be from the applicant's previous thesis advisor or an academic equivalent. All letters of recommendation should evaluate the student's potential for performing independent, masters or doctoral-level research.
- Applicants who do not have an ABET-accredited B.S. degree are required to submit GRE scores.
- International applicants must meet the WVU requirement of English language proficiency (<https://graduateadmissions.wvu.edu/information-for/international-students/>).

MSMINE Major Code: 3035

PhD Major Code: 3061

For specific information on the following program, please see the links to the right:

- Mining Engineering, M.S.Min.E.

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- Mining Engineering, Ph.D.