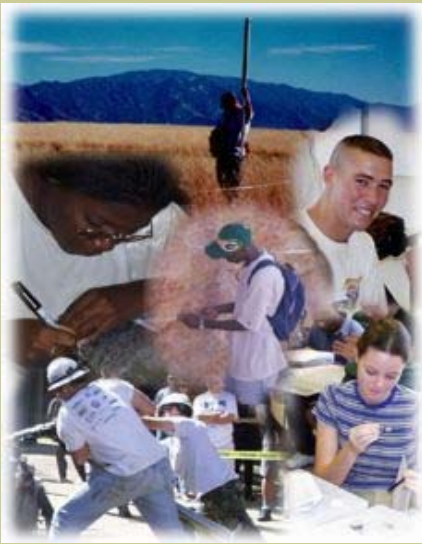


SUPPORTING THE WORKFORCE THAT SUPPORTS THE NATION

# Energy & Mineral Schools Reinvestment Act



## Mining Engineering

Support Scholarships  
Basic and Applied Research  
Campus and Field Laboratories

National policy to preserve and foster the human capital necessary for National economic, energy and minerals security.

The Act declares that petroleum and mining schools and applied geology and geophysics schools which produce the human capital are national assets which will be assisted with Federal funds and creates funding to maintain and encourage the growth of the energy and minerals workforce.

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The United States is the world's largest user of mineral commodities, with processed materials of mineral origin accounting for over \$487 billion in the economy in 2005 (an increase of 8 percent over 2004 on top of an increase of over 13 percent in 2003)

Workforce availability has become a significant problem for the domestic petroleum and mining industries.



The nation is now down to 17 petroleum schools (from 34 in 1983) and 13 mining schools (from 25 in 1983).

Skilled trades people are in short supply across the industry.

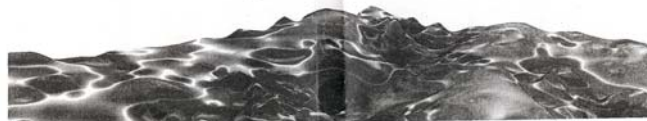
Government funding for university research in mineral resources disciplines has been eliminated or greatly reduced.

A large percentage of the faculty in mineral resources programs are retiring and there are few PhDs in the pipeline to replace them.

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FPI NATIONAL POST, SATURDAY, SEPTEMBER 9, 2005

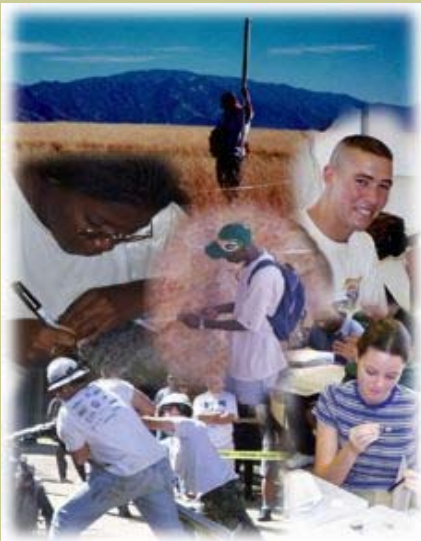
### HELP WANTED

Up to 81,000 men and women who can put a high-tech face on the mining industry. Engineers and MBAs encouraged. Remuneration impressive. Pick and shovel not required.



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## Mining Engineering

US schools graduated 128 BSc Mining Engineers in the US in 2006.

Enrollment is approximately 906 undergraduates in mining engineering down from 3000 in 1979.

Demand exceeds supply by 300%.

60% of SME members are over 50.

A consequence of the worker shortage is multi-billion dollar cost over runs on mining projects.

The next consequence of the shortage will be negative impacts on environment, health, and safety.

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EMSRA helps the Secretary of the Interior to provide funds for recognized petroleum or mining schools to:

- Assist in maintaining programs in petroleum, mining, and mineral engineering education and research.
- Support existing accredited mining engineering and petroleum engineering programs
- Support petroleum and mining geology and geophysics programs and extractive metallurgy
- Fund basic and applied research
- Support laboratory and field facilities (mines and drill rigs)
- Scholarships and Fellowships with veterans and minority preference
- Fund career technical education at community colleges and vocational programs in high schools
- Support programs at minority serving institutions
- Establish an Office of Petroleum and Mining Schools in the Department of Interior Land under the supervision of the Assistant Secretary for Land and Minerals Management
- Establish a committee on Petroleum, Mining, and Mineral Engineering and Energy and Mineral Resource Education