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Missouri S&T Professor and Alumnus Featured in SME Docuseries

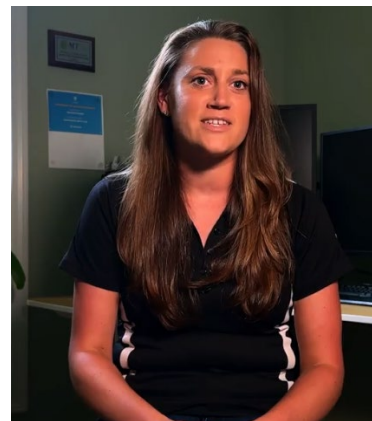
Jobs of Tomorrow explores the instrumental role of explosives in mining's leading career docuseries



Without explosives, we simply could not access all of the many minerals and metals making modern life possible. In the new season of *Jobs of Tomorrow*, you'll discover experts, institutions and companies dedicated to the safe and responsible practice of this fascinating application of science.

This episode, titled "[An Explosive Career in Mining](#)," unearths the realities behind the everyday duties of explosives engineers, who are often enlisted to help maximize the efficiency of mining operations across the world. These highly qualified professionals apply a variety of techniques to mitigate risk, ensuring the safe execution of each unique blast.

"Every blast is designed with regard to the explosives that are there, how far apart the holes are, how much explosives we are putting in," said Catherine Johnson, Associate Professor of Mining and Explosives Engineering at Missouri S&T. "From that, we can also predict what size the fragmentation is going to be afterwards, what direction it's going to be moved and how much vibration might result from that blast."



Catherine Johnson

This episode features additional key insights into careers in mining explosives engineering from professionals representing Dyno Nobel, a global leader in commercial explosives.

“There’s an instant gratification that you get when a blast occurs,” said Braden Lusk, President of Dyno Nobel Americas and Missouri S&T alumnus. “You immediately know ‘Ok, that’s the result of what I’ve been spending the last few days or months on.’”



Braden Lusk

SME Studios is currently releasing six brand new episodes of *Jobs of Tomorrow*, a career docuseries spotlighting the exciting, high-tech and increasingly green world of mining where multidisciplinary professionals come together to drive innovation in energy, infrastructure, transit and more.

Episodes and member profiles are available on SME Studios at media.smenet.org. New episodes are being released biweekly through May 2024.

“[An Explosive Career in Mining](#)” is sponsored by Dyno Nobel. Support for the series came from Brooks & Nelson.

About SME

The Society for Mining, Metallurgy & Exploration (SME) brings together the mining and mineral industry’s brightest and most dedicated professionals. Over 13,000 global members advance their careers with the world-class technical resources, educational programs, networking opportunities and professional development tools from SME. Our members are focused on sharing best practices for safety, environmental stewardship and moving mining forward. SME. *Inspiring mining professionals worldwide.*