

From: [Brandon Dugan](#)
To: [Faculty Senate](#)
Cc: [Paul Sava](#); [Matthew Siegfried](#)
Subject: Expression of Interest for Mines Signature Student Experience RFP
Date: Wednesday, October 28, 2020 9:03:23 PM
Attachments: [Earth_Energy_Environment_Experience.pdf](#)

Dear Faculty Senate,

Attached is our 150-word expression of interest for the Mines Signature Student Experience RFP. Please let us know if you have any questions or need anything else.

Thank you,
Brandon, Matt, and Paul

--

Brandon Dugan (he/him/his)
Associate Professor
Associate Department Head
Baker Hughes Chair
Department of Geophysics
Colorado School of Mines

Mines Signature Student Experience Faculty Senate Funding Expression of Interest
Brandon Dugan, Matt Siegfried, Paul Sava

Earth Energy Environment – A Mines Experience

Every Mines student should have the opportunity experience Earth, Energy, and Environment. We propose developing an immersive introduction to these topics through a virtual reality field trip that provides students with 3D tours and opportunities to explore the origins of 3D geoscience data. The virtual field trip will allow students to fly through the coupled Earth system from the crystal to global scale while exploring the structure of Earth, Earth's energy sources (nuclear, solar, geothermal, fossil), and how the environment in which we live is created and modified by the interaction between human and Earth systems. We will collaborate with external partners (e.g., USGS, UNAVCO, Maxar) to provide students with an opportunity to learn about and understand Earth and to begin building a professional network. The experience will be embedded into our Earth Energy Environment course, but will also be offered as an opportunity for students not enrolled in the course.