

From: [Anthony Petrella](#)
To: [Faculty Senate](#)
Subject: RE: Mines-Faculty: Expression of Interest for RFP Student Signature Experience
Date: Thursday, October 29, 2020 9:57:20 AM
Attachments: [FEA Pro signature student experience.pdf](#)

My short paragraph is attached.

Thanks,
Tony

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From: faculty-bounces@mailman.mines.edu <faculty-bounces@mailman.mines.edu> **On Behalf Of** Faculty Senate
Sent: Wednesday, October 28, 2020 10:34
To: faculty <faculty@mines.edu>
Subject: Mines-Faculty: Expression of Interest for RFP Student Signature Experience

Are you working on your proposal for the Student Signature Experience? Remember, send a short paragraph as an **Expression of Interest** to senate@mines.edu by **November 2nd**. We are asking for an Expression of Interest to determine the number and amount of proposals.

Currently, we have two sessions scheduled to provide proposal assistance: Nov. 9th and Nov. 12th. We could add another session if necessary. The sessions aim to provide preliminary feedback and an opportunity to connect with others if they might have similar ideas. After you submit your Expression of Interest, Julie Lambert coordinate adding you to one of the proposal assistance sessions.

ANDREW HERRING

Senate President
Professor, Chemical and Biological Engineering
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Signature Student Experience

Anthony Petrella

Associate Professor, Mechanical Engineering

Director, FEA Professional, <https://mines.edu/feapro>

29 October 2020

The FEA Pro graduate certificate is a new online program. It's guided by the attached CREDO, which articulates a commitment to leadership and delivery of signature student experience through (a) continuous improvement, (b) a focus on practical contemporary applications, and (c) long term relationships with students and their employers.

I propose to cultivate relationships with key industry partners (e.g., ME Dept top 10 hiring companies, employers of current FEA Pro students, strategic companies in emerging fields) to create highly practical projects on contemporary topics to be featured in FEA Pro classes. Funding will support travel to visit partners (post-pandemic), resources (hardware, software, materials, marketing literature), and a few days of faculty time/effort.

The FEA Pro signature experience will serve approximately 100-120 students per AY (across 5 courses) and will drive growth toward our target of 100 graduates per AY. The model we develop will be extensible to other Mines programs/courses.



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highlights: relate to signature student experience

Our Credo

Borne out of the broader vision of Colorado School of Mines, the FEA Professional Graduate Program is explicitly guided by the [MINES@150](#) organizational goals. Indeed, FEA Pro has been built on the bedrock foundation of Mines' core values for the specific purpose of contributing to the university's educational mission.

We aspire to make FEA Pro the premier training program for applied finite element analysis, globally. We strive to realize this vision by focusing on our programmatic mission of delivering maximum value to our primary stakeholders, including program participants, our faculty, our external partners, and the Mines community. This Credo articulates the core principles and aims that guide the execution of our mission.

Program participants shall receive the highest quality, dedicated online training we are able to deliver, and we shall undertake continuous improvement of both the pedagogical and technological strategies used in FEA Pro. Our curriculum shall be informed by practical contemporary applications, and it will focus on maximizing participants' proficiency and effectiveness with relevant computational tools in their chosen field.

FEA Pro faculty embody our human capital and we recognize them as the core asset that distinguishes our program among its peers. All members of the faculty shall endeavor to demonstrate active leadership in one or more fields of applied computational mechanics. Accordingly, they shall be encouraged and supported in the regular pursuit of professional development through activities such as scholarship, entrepreneurship, or technical training.

Our external partners in industry, government, and academia shall know FEA Pro as a reliable source of expertise, among both our graduates and our faculty, that may be called upon to support practical applications of computational mechanics across a wide range of fields.

The Mines community shall see FEA Pro as a source of pride, as a steadfast exemplar of the university's mission and values, and as an innovative leader in online education.

To every stakeholder we emphatically state that we oppose all forms of bigotry and will take deliberate actions to combat it everywhere within FEA Pro. We believe that diversity, access, and inclusion are critical elements of the successful execution of our mission and they increase the benefits accrued by all stakeholders. We endeavor to proactively promote diversity, access, and inclusion throughout our program and, indeed, throughout Mines.

Anthony Petrella
Director, FEA Professional