

Subject: CEE Newsletter
Date: Friday, August 14, 2020 at 1:46:59 PM Pacific Daylight Time
From: Rufa N Pazyuk
To: coe-cee-grad-students Sympa List
Attachments: Step by Step Submission Instructions Final[2].pdf, NASA Fellowship Rotation Activity 2020_Letter[2].pdf, ESCSI John Ries Scholarship 2020-21.pdf, 2020 ACCELERATE Asych Announcement.pdf

Hello Civil and Environmental Engineering Graduate Students,

Please take a look at the announcements as some of the deadlines are approaching. I hope you are having a great summer, given the circumstances!

Scholarships and Fellowships

- NASA Fellowship Rotation Activity
- John Ries Scholarship

Career Opportunities

- Associate Project Engineer
- Associate Engineer

Course

- ACCELERATE Asynchronously - self-paced course for remote teaching development
-

Scholarships and Fellowships

[NASA Fellowship Rotation Activity \(Attached\)](#)

The NASA Office of STEM Engagement (OSTEM) is seeking one to two mid-career staff whose skills support NASA's strategy for STEM Engagement to:

- create unique opportunities for a diverse set of students to contribute to NASA's work in exploration and discovery;
- build a diverse future STEM workforce by engaging students in authentic learning experiences with NASA people, content, and facilities; and
- attract diverse groups of students to STEM through learning opportunities that spark interest and provide connections to NASA's mission and work.

NASA's STEM Engagement community works in close collaboration with NASA's STEM workforce to provide

exceptional experiences for students, and with NASA's public engagement workforce to leverage opportunities for reaching students. NASA is committed to finding innovative ways to deliver our content and engage students in STEM learning. In that regard, OSTEM announces a nationwide search for staff employed at Minority-Serving Institutions (MSIs) to join NASA's OSTEM team on a two-year temporary assignment beginning January 2021. The Intergovernmental Personnel Act Mobility Program (IPA) provides for the temporary assignment of personnel between the Federal Government and state and local governments, colleges and universities, Indian tribal governments, federally funded research and development centers, and other eligible organizations. The selected IPAs will serve with the Minority University Research and Education Project (MUREP) team during the pilot phase of this new initiative.

General Requirements

- U.S. or naturalized citizen;
- Full-time STEM/Education faculty or administrative/managerial staff (i.e., student activities director, program/project manager, etc.) at a two- or four-year accredited U.S. (MSI designated) institution;
- Letter of support from an authorizing official representative of the institution.

Potential Activities

NASA is interested in building a cohort of fellows to help us attract a more diverse population of students to OSTEM's programs. Activities may include:

- Developing strategies to infuse diversity and inclusion within OSTEM and NASA's Mission Directorates.
- Establishing priorities to enhance the participation of MSIs' partnerships and collaborations leading to increased involvement in NASA programs.
- Managing significant elements or phases of an assigned research partnership with one or multiple NASA Mission Directorates under the auspices of the MUREP program manager.
- Establishing a scalable and systemic OSTEM activity to broaden participation of underserved and underrepresented communities and institutions.

These activities may be tailored to the background and expertise of the candidate(s). Fellows may be placed at NASA Headquarters and/or Centers across the Agency. NASA's telework policy may also be an option for this opportunity. Faculty and/or staff who meet the general requirements, particularly members of underrepresented or underserved groups and persons with disabilities are strongly encouraged to consider this opportunity.

If you are interested, please register by 5:00 pm EST on August 17, 2020 - click the following link or copy and paste it on the address line of a web browser: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId={7E4DFD50-15F6-C3FF-5232-DDFF66633943}&path=&method=init.>

John Ries Scholarship (Attached)

The ESCSI is the international trade association for manufacturers of rotary kiln-produced expanded shale, expanded clay and expanded slate (ESCS) lightweight aggregate. ESCSI promotes the extensive use of rotary kiln-produced lightweight aggregate in the lightweight concrete masonry and structural lightweight concrete markets, as well as use in asphalt, geotechnical and other applications. Based on research and development, educational material is disseminated to all phases of the construction industry. The association works closely with other technical organizations, such as ACI and ASTM, to maintain product quality, life-safety and professional integrity throughout the construction industry and related building code bodies.

Applications are accepted as self-nominations by undergraduate or graduate students in civil engineering or closely related majors who are enrolled in fall 2020 and will return to school for spring 2021. All applications shall be postmarked no later than **October 1, 2020**. Applications should include the following items:

1. The application form signed by the applicant (electronic signature is acceptable). This form is also available as Google Form at <https://forms.gle/xU9ykvsEbjZ4pbcx9>
2. A one-page statement of qualifications by student describing motivation in ESCS materials; academic and career goals related to ESCS applications; planned research- or practice-based projects involving ESCS materials; and/or the value of this scholarship to achieve goals or complete projects; (letter-size, single-spaced, 1" margin, font size 12, doc or pdf)
3. Unofficial transcripts indicating the current GPA of 2.75 or higher (pdf);
4. A confidential letter of recommendation by a faculty; signed, dated, and sealed; or sent directly via email by the faculty with the subject "John Ries Scholarship".

Please send completed application and attachments, as well as any question to following address and mention "John Ries Scholarship" in the subject line of emails, or back of mail packages:

Expanded Shale, Clay and Slate Institute
35 East Wacker Dr., Suite 850
Chicago, IL 60601
info@escsi.org

Career Opportunities

Associate Project Engineer – in the Field Operations and Asset Management Section

support the delivery of operational and capital transportation projects for the Metropolitan Transportation Commission (MTC) and Bay Area Toll Authority (BATA). Projects will be on and off of the Caltrans State Highway System, including on the Bay Area's Toll Bridges and Express Lanes. The work involved will be technical in nature in the areas of environmental review, design, right of way, construction and maintenance, and will also require a contract administration effort including consultant procurements and contracts, cooperative agreements with Caltrans, and coordination and collaboration with Caltrans, Congestion Management Agencies (CMAs), local cities and counties, transit agencies, private consulting firms, utility companies, business and organizations, and other sections within MTC. ***This position will remained opened until a qualified applicant pool is established. Interested applicants are encouraged to apply early. To learn more, please visit: <https://www.governmentjobs.com/careers/mtcca/jobs/2726930/associate-project-engineer>***

Associate Engineer – Traffic Operations in the Design & Project Delivery Section

In this position, the Associate Engineer will lead and support a wide range of operational improvement projects, including transportation planning, traffic operation analyses, engineering studies, corridor alternative assessments, and project development. The Design and Project Delivery Section is responsible for the development and delivery of innovative transportation strategies that improves the performance of the

region's freeway, bridge, arterial, and transit systems, with an emphasis on operational efficiencies and demand management/high vehicle occupancy strategies. This position will lead and work collaboratively with a team of planners and engineers within and external to MTC in accomplishing these goals. The ideal candidate will be a generalist with a wide spectrum of engineering experience and skills that can be broadly applied to their multi-faceted projects. Please submit your application by **Monday, September 7th at 11:59 P.M.** To learn more, please visit: <https://www.governmentjobs.com/careers/mtcca/jobs/2747701-0/associate-transportation-engineer>

Courses

ACCELERATE Asynchronously - self-paced course for remote teaching development (Attached)

The Center for Educational Effectiveness (CEE) has been running our ACCELERATE course, designed to assist with the development of online and hybrid course offerings, for several successful years. The course has two related goals:

1. Provide tools, ideas, and training to faculty for the development of online learning environments
2. Ensure that the courses created are accessible, equitable, and inclusive for our students

In the current remote-teaching situation, the importance and demand for these goals has increased exponentially. To address the needs of the many faculty who have asked for resources for enhancing their remote teaching in the fall, in a format they can experience on their own time, CEE has created an *asynchronous* version of that course. (Please note that, although the course is developed out of the Undergraduate Education unit, it is equally applicable to the development of graduate seminars and other graduate teaching.)

Following is the official launch announcement:

The Center for Educational Effectiveness (CEE) is pleased to announce the self-paced, fully-online **ACCELERATE Asynchronously** program to help faculty and teaching assistants prepare for remote teaching. The program is designed to support the creation of inclusive and equitable e-learning environments for the transition of face-to-face courses into online courses. The program is open to all faculty, teaching assistants, and staff.

For more information about **ACCELERATE Asynchronously** and to enroll, visit <https://cee.ucdavis.edu/courses>