



OSU KEEN Post-Doctoral Research Associate

This is a non-tenure track, 18-month (with possible extension for another 6 months pending performance and funding) post-doctoral research associate position funded by a Kern Family Foundation grant that seeks to expand capacity for integration of Entrepreneurial Minded Learning (EML) across First Year and Capstone courses in the College of Engineering. The post-doctoral research associate will join an interdisciplinary research team including faculty, staff, and graduate students from the Department of Engineering Education (EED) and the Office of Academic Affairs at The Ohio State University.

Responsibilities: The successful candidate will support all aspects of the project but will mainly be responsible for co-facilitating Faculty/ Professional Learning Communities (FLC) that focus on EML. A “faculty learning community” is a specifically structured learning community of faculty and staff in higher education that includes the goals of building community, engaging in scholarly, evidenced-based, teaching, and the development of SoTL (Cox and Richlin, 2004). Responsibilities will include organizing meetings, planning logistics, finding materials as requested, and co-facilitating the monthly sessions to assist FLC participants in meeting their individual and shared learning goals. The work will also include supporting participants and project staff in assessing the instructional activities developed by the FLC members. The successful candidate will assist in creating and conducting assessments on the effectiveness of infusing EML in various courses. They will develop training materials for faculty to include EML in their courses as needed. They will also assist faculty in the development and analysis of curriculum related to EML. Related to the research and assessment aspects of this project, the successful candidate should demonstrate knowledge of qualitative, quantitative, and mixed methods. Quantitative expectations include the creation, deployment, and analyses of assessments in engineering courses. Qualitative expectations involve the utilization of techniques such as interviews, focus groups, and document analysis as needed. The candidate is expected to draw upon theoretical perspectives across a variety of fields (e.g., higher education, sociology, statistics, psychology, and anthropology). Benefits include opportunities to contribute to a collaborative, positive, congenial and professional team environment; to be mentored by nationally recognized faculty with diverse perspectives; to disseminate findings at national conferences and within peer-reviewed scholarly journals. The salary for this position is \$60,000.

Qualifications: The candidate must possess a Ph.D. in engineering education, engineering, STEM education, educational psychology, sociology, science, technology, leadership and policy studies, learning sciences, and/or related fields and must demonstrate skills in retrieving, reviewing, and synthesizing literature related to higher education, educational development, sociology, anthropology, or other related discipline. Preference will be given to candidates with experience with faculty engagement or professional development, especially FLCs or other communities of practice and principles of course design. Preference will also be given to candidates with knowledge or experience in capstone courses or classes teaching engineering design process. The candidate must demonstrate research interest(s) in one or more of the following areas: postsecondary education; faculty professional development; course and curriculum development; mixed methods in STEM education; and postsecondary student learning. Good verbal and written skills in English are required.

Application Procedure: Send a letter electronically addressing your interest and qualifications, a current vita, the names of three professional references, and a copy of one or more publications (published or in press) to EED Program Assistant, Toni Calbert (calbert.5@osu.edu), with the subject header: “KEEN Postdoctoral Application.” The first round of application screenings will begin immediately and will continue until the position is filled.

KEEN and Ohio State: KEEN is a nationwide partnership of undergraduate engineering programs whose mission is “to graduate engineers with an entrepreneurial mindset so they can create personal, economic, and societal value through a lifetime of meaningful work.” Since its founding in 2005, KEEN has partnered with over 30 engineering programs across the country to promote EML through curriculum development, collaborative research, and nationwide events. Ohio State became a KEEN partner in 2017. Applicants are encouraged to explore engineeringunleashed.com for more information on EML and the Ohio State partnership with KEEN.

References: Cox and Richlin, *New Directions in Teaching and Learning*, Volume 97, Jossey-Bass.