Call for Proposals
Discipline-Based Education Research Projects

Submission Deadline: April 5th, 2019

Part of the mandate of the PSEER Centre is to provide seed funding for new research projects in the general field of physical science and engineering education research within the College of Engineering & Physical Science. Collaboration with scholars in other units on campus and in other institutions is encouraged, but the principal investigator must be a member of CEPS. Within each of the disciplines represented in the college there are many approaches and methods that can address the goal of studying and measuring student learning and the effectiveness of novel pedagogical approaches.

Members of CEPS are invited to submit proposals for annual awards normally up to $10,000. We welcome a broad spectrum of proposals and encourage applicants to consider interdisciplinary proposals that address topics such as, but not limited to, inclusivity, experiential learning, and/or collaborative learning. Projects that are exploratory and may lead to larger research investigations will also be considered.

This award can be used in many ways, including GTA/GSA funding for graduate student support for the project, and costs of disseminating the results, including conference attendance, etc.

1. Proposals are invited from individuals or groups within CEPS. They must be endorsed by the School Director or Department Chair of all individuals involved.
2. It is required that findings from successful proposals be disseminated at the University of Guelph through PSEER sponsored talks and/or the University of Guelph Teaching, Learning and Innovations Conference.
3. Proposals will be considered and ranked by the PSEER Steering Committee and announcements made before the end of April 2019. The awardee will be able to commence work on the project by May 2019. See rubric below for ranking criteria.
4. The application must include the following items:
   a. Project title
   b. Name of principal investigator, PI’s academic unit, PI’s email
   c. Name of co-investigators (include names, units, emails)
   d. Summary of research plan including the research question, proposed methodology, and the anticipated impact to university STEM teaching
      i. Context (i.e. What motivated your research project?)
      ii. Objectives (i.e. What do you hope to achieve in your research project?)
      iii. Relevant literature (i.e. Upon what literature is your research project founded?)
      iv. Methods (i.e. What research methodology/approach will you use)
      v. Significance (i.e. What impact do you hope to have as a result of your research project?)
   vi. Dissemination Plan (i.e. Through which avenues will you
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disseminate your research? Consider disciplinary and/or teaching and learning conferences and publications)

e. Project timeline and budget
   i. Itemize proposed expenses and explain them
   ii. Indicate which aspects of the proposal will be funded from PSEER and which from other sources (if applicable)
   iii. Describe the timeline for the project noting that funds will be made available in May 2019, and that normally they are to be spent during the 19/20 academic year, but not later than April 30, 2020.

f. Project REB approval
   i. Projects that require University of Guelph’s REB approval must provide an approved REB number, or indicate that REB approval will be obtained.

5. The completed proposal should be no longer than 3 pages and should be submitted by Friday, April 5th, 2019 To Errin Campbell, CEPS Dean’s Office, at ecampbe@uoguelph.ca.

6. Applications must be approved and signed by the School Director or Department Chair of the PI.
Each proposal is ranked on a scale of 1 to 5, where 1 indicates that the explanation provided WAS NOT acceptable, 3 indicates that the explanation provided was acceptable and meets minimum standards of each criterion, and 5 indicates the explanation provided was excellently articulated and justified and exceeds the minimum standards of each criterion.


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<th>Criteria</th>
<th>Consider</th>
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<td>Clear objectives</td>
<td>Are the goals and purpose of the work? clearly articulated?</td>
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<td>Relevant literature &amp; practice</td>
<td>Does the proposal acknowledge and/or build upon past scholarly work?</td>
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<td>Appropriate methods</td>
<td>Will the appropriate procedures, methods, and ethical considerations be used to investigate the question?</td>
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<td>Significance of results</td>
<td>Can the results contribute to the knowledge base of the discipline and/or bodies of knowledge related to?</td>
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<td>Dissemination plan</td>
<td>Does the proposal indicate how the university and other scholars and practitioners in the field will be?</td>
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<td>Budget proposal</td>
<td>Does the proposed budget outline appropriate expenditures? Is it dedicated to appropriate activities?</td>
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