The Ira A. Fulton College of Engineering & Technology is requesting proposals for Mentored Research Grants.

ELIGIBILITY
Full-time faculty in the Ira A. Fulton College of Engineering & Technology

PURPOSE
Support strong mentored learning environments for undergraduates

LENGTH
Up to 5 pages, plus coversheet (see template), references, and CV

BUDGET
Up to $25,000 over two years (about 8 awarded per calendar year)

DEADLINE
May 4, 2018 (future dates likely in early December for 2018 and future years)

DURATION
Funds available to PI by June 1, 2018. Projects completed by December 2019.

SUBMISSION
Send proposals to Elyse Bradley at elyse_bradley@byu.edu

REPORTING
Due December 20, 2018 and December 19, 2019
Reports include: student name(s), project title/description, amount of allocated funds, evidence of outcomes, short report to donors from students

DESCRIPTION
Mentored Research Grants (MRG) are intended to create strong mentored learning environments in the Ira A. Fulton College of Engineering & Technology. The focus of MRGs is involving undergraduates in excellent research. Research products (e.g. peer-reviewed publications) are expected outcomes. Proposals are competitive and will be reviewed by a college review committee using the criteria summarized below:

Necessary but not sufficient
- Focus on mentoring undergraduate students
- Consistent with faculty scholarship responsibilities
- Full-time faculty PI
- Scholarship outcomes (e.g. peer-reviewed publications)

Distinguishing Criteria
- Quality of mentoring experience
- Potential impact of work

Specific proposal instructions and a cover-page template are attached. An MS Word file is also available for the template.

Please contact Larry Howell (associate dean) if you have any questions or require additional information.
Mentored Research Grant (MRG)
Cover Page Template

Project Title
Title:

Principal Investigator(s) (full-time faculty)
PI Name:
PI Department or Program:
Co-PI names and departments (if applicable):

Abstract
Replace this text with an abstract of up to 150 words.

Number of Students to be Mentored
Number of Undergraduate Students:
Number of Graduate Students*:

* MRGs are primarily for mentoring undergraduates in research. When graduate students are included in the budget, it should be in support of creating the mentoring environment.

Budget
Provide the budget in the table below. The total amount can be up to $25,000. MRGs do not cover tuition, equipment, or faculty wages.

<table>
<thead>
<tr>
<th>Item</th>
<th>2018</th>
<th>2019</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Undergraduate wages</td>
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<tr>
<td>Graduate wages</td>
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<td>Supplies</td>
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<td>Travel</td>
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<tr>
<td>Other (explain)</td>
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<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

Explain “Other” if used:

Relationship to External Funding
Replace this text with a brief explanation of why the project should be supported by MRG funding rather than external funding (examples are provided on the instructions page).
Mentored Research Grant
Proposal Instructions

The proposal consists of the following elements:

1. **Cover page template** (1 page). Most elements of the template are self-explanatory. The “Relationship to External Funding” should provide a brief explanation of why MRG funding is appropriate for the project rather than external funding. Possible reasons include but are not limited to the following examples: it is concurrent with an externally funded project and the MRG provides an opportunity for undergraduates to be involved in the work; the MRG will provide results to be used in future proposal(s) (i.e. seed funding); recent external proposals reviewed well but weren’t funded and MRG could help the next proposal be funded; it is high-risk exploratory research that precedes funding initiatives and may help inform the national research agenda; impactful service-oriented research; use MRG to bridge the gap between federal and industry funding; etc.

2. **Project description** (5 page limit). This section is the main body of the proposal and should address a minimum of the following elements (though they don’t need to be in this order):
   - Research\(^1\) to be performed
   - Description of mentoring environment
   - Expected research outcomes (e.g. peer-reviewed publications)
   - Potential impact of work

3. **References** (no page limit). List references cited in the project description.

4. **Biographical Sketch** (2 page limit per PI)

Review criteria include the following:

1. Necessary but not sufficient criteria (proposals not meeting these criteria will not be funded)
   - Focus is on providing mentoring for students
   - Work is consistent with faculty scholarship responsibilities
   - PI is full-time faculty
   - Outcomes include research product expectations (e.g. peer-reviewed publications)

2. Distinguishing criteria
   - Quality of the mentoring experience
   - Potential impact of the research beyond mentoring

Reporting requirements:

- The university requires a minimum of the following information to be reported annually (reports are due in December of each year):
  - Student Name(s)
  - Project Title/Description
  - Amount of Allocated Funds
  - Evidence of Outcomes
  - Short report to donors from students

- A report format and process is in work for this new program, but PIs will be well served by planning to gather the above information from the beginning.

\(^1\)“Scholarly work” can be substituted for “research” in disciplines where research isn’t the faculty expectation for scholarship.
To understand the MRG, it may be helpful to see how it fits in context with other internal funding:

- **Experiential Learning Funds**: These are university funds distributed through the college to departments. It is anticipated that these will be used to support experiential learning activities such as involvement in national engineering competitions, service learning opportunities, etc.

- **Mentoring Research Grant**: These funds are to support undergraduate involvement in research. Research outcomes, such as peer-reviewed publications, are expected. A strong mentored research environment is essential.

- **Seed Funding Awards**: These have one review criteria – will it help faculty receive external funding.