



UNDERGRADUATE ARMOUR R&D PROGRAM APPLICATION FORM – Summer 2017

Program for Undergraduate Research in Engineering (PURE)

Thank you for applying to the PURE portion of the Undergraduate Armour R&D Program. This application is to be completed thoroughly, as explained in the directions below. Please note that this program is competitive in nature and not all applications may be funded. There is a limit on the number of semesters that each student is eligible for funding under this program. For student/faculty teams that have previously received funding, matching funds from the research laboratory may be required. A well-written application is critical to achieve acceptance into this program.

Please note that the PURE portion of our program is specifically related to research in engineering conducted with engineering faculty from Armour College.

You must work with your faculty mentor to complete this application, but **this application should be written from the student's point of view and perspective and not by their advisor.**

REQUIREMENTS

Students participating in these programs must fulfill the following requirements:

- **Prepare a final report that describes results from the research.** The report is due the last day of the research period (July 28, 2017).
- **Participate in specific Expos in which students present a poster of their research findings**
 - Armour R&D Summer Research Immersion Expo in July
 - 4th Annual Armour R&D Expo to be held in early April 2018
 - Chicago Area Undergraduate Research Symposium (CAURS) to be held in late April 2018.
- **Submit a paper to the IIT UG Research Journal.** The Faculty advisor is expected to mentor the students in the preparation of the poster and paper.

INSTRUCTIONS TO APPLY

When submitting your proposal:

- **Handwritten information** is NOT allowed in the application.
- Completed applications (this form and accompanying project information) should be submitted as **one consolidated PDF with your first and last name in the file name.**
- Emailed **by 5pm on April 10, 2017 to:**
 - To: engineering@iit.edu
 - CC: your Faculty Mentor
 - Subject: Armour R&D PURE Application
 - Proposal file name should include your first and last name

Applications that do not conform to these guidelines will not be accepted.

APPLICATION FORMAT

There are four sections to this application. The **student/faculty team** should **jointly** address the following topics using a *maximum of one page for each section.*

1. **Project Description (Faculty Mentor & Student):** Describe the proposed project and its relevance to one or more of the IIT Engineering Themes (Water, Security, Health and Energy). If the proposal is to continue work that was previously supported through Armour R&D, describe how the new work will build on the earlier work. This portion of the application should contain a clearly outlined project plan (problem statement, objectives, general methods/approach, overall potential application of the work conducted, expected contribution and/or impact).

2. **Student Background (To be prepared by Student):** Statement should include an explanation of your interest in the program, how participation will benefit your research and educational goals, and a brief description of educational background and qualifications to conduct the proposed research development work. **In addition, please include your resume at the end of this application.**
3. **Mentoring Plan (To be prepared by Faculty Mentor & Student):** The mentoring plan should be written in conjunction with the faculty mentor and should convey the mentor's plan for providing appropriate guidance; training and mentoring that will enhance the overall student experience. Specifically, this section of the application should describe the mentor's expectations for student learning, mentoring style, frequency of meetings with the mentor or research group, plans for monitoring and evaluating student progress, and a plan for mentoring the student in the preparation of the required final project report. All students receiving support from this program are required to participate in the Armour R&D Expo (present a poster), present at the Annual Armour R&D Expo, present at Chicago Area Undergraduate Research Symposium (CAURS), submit a final research report, and to submit a paper to the IIT UG Research Journal. The Faculty advisor is expected to mentor the students in the preparation of the poster and paper.
4. **Project Information (student should complete below information)**

Have you previously participated in Armour R&D? (Y/N):
If yes, what semester(s)/year(s)?:

Student Name:

A#:

Email:

Major:

Year at IIT:

GPA:

Faculty Name(s):

Department:

Email:

Project Title:

Theme (Water, Energy, Health or Security):

Hours/Week (20 or 40):

If other students are submitting PURE/MIND proposals for the same research/project, please list their names below.

- 1.
- 2.
- 3.

In laymen's terms, write a short paragraph (*around 100 words*) summarizing the overall project, your part in the overall research, and potential future applications of the research.