UnERD Conference
Information Session

June 30, 2023

UnERD Planning Committee
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About UnERD

• Undergraduate Engineering Research Day

• Full-day event at the University of Toronto Engineering where undergraduate students showcase their research projects with their peers, graduate students, and Faculty members in the audience

• August 16th, 2023 at Myhal Centre for Engineering Innovation and Entrepreneurship
Reasons to Participate

• Professional growth
  o Impress industry employers with UnERD your resume
  o Enhance your graduate school application

• Leadership experience
  o Network with other research leaders
  o Practice your presentation/communication skills in a low-stakes environment

• Prizes and recognition
  o Win an award for best poster or presentation
  o Stand out amongst U of T Engineering’s vibrant research community
Guest Speaker: Marjan Naghshbandi

Radiation Therapy Treatment Scheduling
Nature of Presentations

- Pick one out of two presentation types: podium (1) or poster (2)
  - Podium: student researcher presents a PowerPoint
  - Poster: student researcher speaks to a physical research poster
- Rubrics to be released later
- Both presentation types conclude with a Q&A period led by the judges
- Judges are U of T instructors/professors in your research category
The 8 Research Categories

1. Bioengineering
2. Advanced Manufacturing and Mechatronics
3. Data Analytics and AI
4. Electrical and Computer Systems
5. Environment and Material
6. Human Health
7. Transdisciplinary Engineering and Practices
8. Aerospace
Types of Awards (Preliminary)

- Best Podium & Best Poster in each of the 8 research categories
- Best Podium Overall
- Best Poster Overall
- Best Researcher Overall
- Best Abstract
- More to come!
Project Type: Design v. Non-Design

• Design Project
  o Identify a gap and design a solution

• Non-Design Project
  o Investigate a concept or hypothesis
  o Present results and implications of the investigation
Judging Style (Abstract)

• Submit abstract by mid-July
• The abstracts are graded by the UnERD Planning Committee
• All abstracts go on the UnERD Conference Booklet
# Abstract Rubric (Design)

<table>
<thead>
<tr>
<th>Title</th>
<th>Descriptive, concise &amp; relevant</th>
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</table>
| **Problem Framing**          | ● Clearly explained background & gap  
                              | ● Purpose of design is justified and connected to gap                                           |
| **Design Process**           | ● Well-defined objectives & metrics  
                              | ● Procedure is clear & relevant                                                                |
| **Results & Discussion**     | ● Current progress & next steps outlined with reference to metrics  
                              | ● Significance to purpose discussed                                                             |
| **Presentation**             | ● Concise, elegant language used to communicate meaning                                         |
# Abstract Rubric (Non-Design)

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| Problem Framing        | ● Clearly explained background & gap  
                           ● Hypothesis is justified and connected to gap |
| Methodology            | ● Relevant discussion of literature methods                           |
| Results & Discussion   | ● Preliminary results & next steps outlined with reference to literature  
                           ● Relation to purpose discussed                                   |
| Presentation           | ● Concise, elegant language used to communicate meaning               |
UnERD 2023 Timeline

• Information Session #2
  o July 14, 2023

• Initial Abstract Submission
  o July 20, 2023

• Final Abstract Submission
  o First week of August, 2023

• Conference Day
  o August 16th, 2023