



UNC CHARLOTTE

The WILLIAM STATES LEE COLLEGE of ENGINEERING

UNC Charlotte – Lee College of Engineering Senior Design Program Company Information

Company Name	<i>Systems Engineering</i>	Date Submitted	<i>07/17/2019</i>
Project Title	<i>IISE Logistics and Supply Chain Division Student Case Competition UNCC_IISE</i>	Planned Starting Semester	<i>Fall 2019</i>

Funding:

What is the source of funds that will be used to cover all of the direct costs of this project?
Department of Systems Engineering & Engineering Management

Is this source of funds already secured? Yes x No

Technical Contact(s)*

	Technical Contact 1	Technical Contact 2	Technical Contact 3
Name	Churlzu Lim		
Phone Number			
Email Address	clim2@uncc.edu		

*We would like to have more than one technical contact, so there is a back-up in case of travel, sickness, job re-assignment, etc.

Personnel

Typical teams will have 4-6 students, with engineering disciplines assigned based on the anticipated Scope of the Project.

Please provide your estimate of staffing in the below table. The Senior Design Committee will adjust as appropriate based on scope and discipline skills:

Discipline	Number	Discipline	Number
Mechanical		Electrical	
Computer		Systems	5
Other ()			

Project Overview and Requirements:

The Logistics and Supply Chain Division of IISE invites nominations for the Student Case Competition. Any team with three to five student members can attend the competition to showcase their problem solving capability and analytical skills on a related LSC case. The winning teams, first, second and third places, of the competition will be recognized at the LSC town hall meeting to be held at the IISE Annual Conference & Expo.

Eligibility Criteria

The **Logistics and Supply Chain Challenge** is open to undergraduate and graduate students to compete and showcase their problem-solving capability and analytical skills on a related logistics and supply chain case. The eligibility criteria are listed as follows:

- Teams must consist of three or five members of IISE for undergraduate students and two or three members of IISE for graduate students.
- All team members must be a member of IISE and belong to the LSC division.
- Team members should be from the same institute (but can be enrolled in different disciplines).
- There is no limit on the number of teams competing from the same institute.
- The teams must demonstrate innovative use of logistics and supply chain concepts in the analysis of the case. The teams can be nominated by a faculty advisor or self-nominated. The following documents will be required from each attending team:
 - One-page contact information including the names, email addresses, university name and department information for all of the members of the team highlighting the contact person for the team.
 - Each student team would turn in a 4-page “memo” describing their analysis, procedure and results.

The Case Article, Growing Pains: A Case Study for Large-Scale Vehicle Routing, is available at [INFORMS Transaction on Education](#).

The Data files are:

[deliveries.xlsx](#)

[distances.xlsx](#)

Faculty advisor can request supplemental material (i.e., Solution Check Tool) by [clicking here](#).

Deadlines

The application is due by midnight on March 15, 2020 (CST) and all of the application documents must be emailed, as a single PDF, to [Hector Vergara](#) by the contact person of the team before the due date for full consideration. There is no application fee.

The winner will notified by **March 22, 2020**.

Expected Deliverables/Results:



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Deliverables include:

- All required materials to be submitted to IISE.

List here any specific skills, requirements, specific courses, knowledge needed or suggested (If none please state none):

- Pre-, co-requisites: SEGR 3114, SEGR 4201 (optional)
- If selected, IISE student membership will be paid by the department.

References

- Competition Information: <https://www.iise.org/Details.aspx?id=35291>
- Review Criterial: https://www.iise.org/uploadedFiles/IIE/Community/Technical_Societies_and_Divisions/Logistics_and_Supply_Chain_Division/LSC%20Student%20Case%20Competition%202019rev.docx
- Case study article: <https://pubsonline.informs.org/doi/10.1287/ited.2016.0167cs>