

SPACE DYNAMICS LABORATORY

# PAYLOAD CHALLENGE

ESRA ID NUMBER

UNIVERSITY

PAYLOAD NAME

TEAM NAME

FACULTY ADVISOR  
EMAIL

**Objective** - Challenge teams to develop payloads that accomplish relevant function(s) while providing useful learning opportunities.

**ENTRY FORM** (to be filled out by team; also fill out top portion of judging sheet)

In order to enter the SDL payload challenge, this form must be submitted no later than two weeks prior to the start of the event.



**Scientific or Technical Objective**

(1200 characters max)



**Failure & Hazard Analysis**

Briefly describe possible failure modes and potential hazards. (1200 characters max)



**Components & Materials Used**

List the components and materials used ("Component" refers to purchased items, "material" refers to everything else). (1200 characters max)

EMAIL FORM TO : [PAYLOADCHALLENGE@SDL.USU.EDU](mailto:PAYLOADCHALLENGE@SDL.USU.EDU)



**Space Dynamics™**  
LABORATORY  
Utah State University Research Foundation





JUDGING FORM

(team fill out top portion only)

SPACE DYNAMICS LABORATORY  
**PAYLOAD CHALLENGE**

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PAYLOAD NAME

TEAM NAME

FACULTY ADVISOR EMAIL

Form fields for ESRA ID NUMBER, UNIVERSITY, PAYLOAD NAME, TEAM NAME, and FACULTY ADVISOR EMAIL.

Table with 2 columns: IREC payload compliance (TO BE FILLED OUT BY JUDGES) and SCORE. Rows include criteria like 'Weigh (8.8 lbs or 4.0 kg minimum)', 'Removable from the rocket', etc., with 'NO' and 'YES' checkboxes and a score input box.

Total IREC deduction or bonuses

Input box for Total IREC deduction or bonuses.

Payload Challenge Judging Criteria

Main judging criteria table with 2 columns: Criteria (Scientific or Technical Objective(s), Payload Construction and Overall Professionalism, Readiness / Turnkey Operation, Execution of Objective(s)) and Score (400 points, 200 points, 100 points, 300 points). Includes descriptive text for each criterion and horizontal lines for notes.

Note that rocket failure results in 150 points (half credit – not known if payload would have worked or not)

TOTAL PAYLOAD CHALLENGE SCORE

