

RISE ▶ **DR**

VERANO 2021

Level	RISE-UP Courses	Credits
1	Fundamentals of Integrated Practice for Resilient and Sustainable Infrastructure*	3
2	Experiential Learning (Internship/ Undergraduate Research)	3
3	Experiential Learning (Internship/ Undergraduate Research)	3
4	Resilient and Sustainable Design and Construction*	3
5	Design- Build Project Delivery*	3
Total Credits		15

Experiential Learning (Internship/ Undergraduate Research)

- Research Opportunities for Undergraduates (REUs)
- Curso Investigacion RISE-UP
- Otros:
 - Habitat for Humanity – Puerto Rico

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Research Opportunities for Undergraduates (REUs)

El programa de Experiencias de investigación para estudiantes universitarios (REU) apoya la participación activa en la investigación de los estudiantes universitarios en cualquiera de las áreas de investigación financiadas por la NSF.

Los proyectos REU involucran a los estudiantes de manera significativa en programas de investigación en curso o en proyectos de investigación diseñados específicamente para el programa REU.

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Research Opportunities for Undergraduates (REUs)

NSF REU Search Website

https://www.nsf.gov/crssprgm/reu/reu_search.jsp

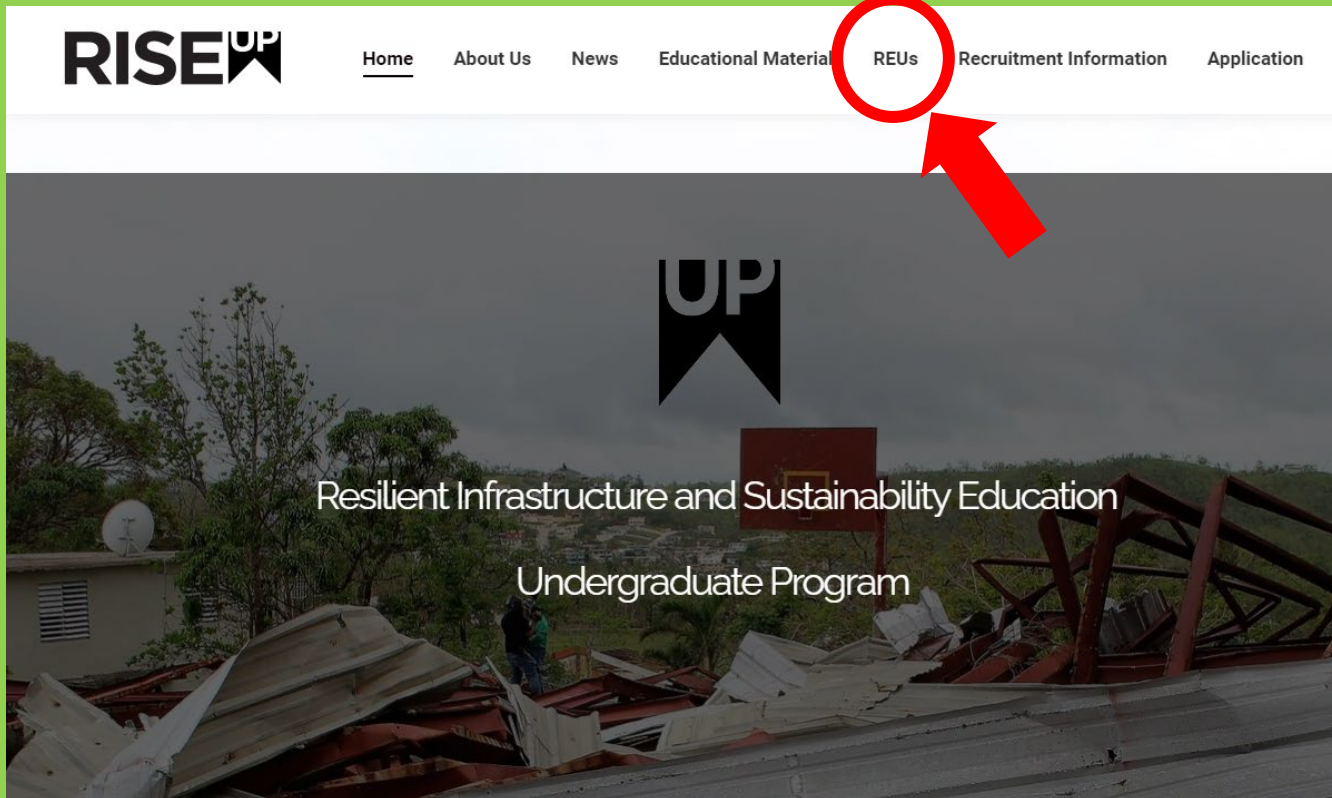
UPRM ERDC-ERIC

Education and Research Internship Program Website

<https://www.uprm.edu/inci/erdc-erip/about-our-program/#1537994637099-3124dc1e-ab83>

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Research Opportunities for Undergraduates (REUs)



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Research Opportunities for Undergraduates (REUs)

- Astronomical Sciences
- Atmospheric and Geospace Sciences
- Biological Sciences
- Chemistry
- Computer and Information Science and Engineering
- Cyberinfrastructure
- Department of Defense (DoD)
- Earth Sciences
- Education and Human Resources
- Engineering
- Ethics and Values Studies
- International Science and Engineering
- Materials Research
- Mathematical Sciences
- Ocean Sciences
- Physics
- Polar Programs
- Small Business Innovation Research (SBIR)
- Social, Behavioral, and Economic Sciences

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RESEARCH / INTERNSHIP
ALTERNATIVES EVALUATION CHART

POINTS

TOPICS (at least 1)	POINTS
Assessment of infrastructure vulnerability	<input type="text"/>
Coastal Resiliency	<input type="text"/>
Disaster preparedness	<input type="text"/>
Disaster response and recovery	<input type="text"/>
Emergency Infrastructure Projects	<input type="text"/>
Emerging materials (sustainable/ resilient)	<input type="text"/>
Life-cycle costs	<input type="text"/>
Microgrids	<input type="text"/>
Renewable Energy	<input type="text"/>
Resiliency in logistics for infrastructure	<input type="text"/>
Infrastructure project delivery	<input type="text"/>
Retrofitting	<input type="text"/>
Social Sustainability	<input type="text"/>
PROFESSIONAL FIELD (at least 2)	
Architecture	<input type="text"/>
Civil Engineering	<input type="text"/>
Electrical Engineering	<input type="text"/>
Social and community fields	<input type="text"/>
Surveying	<input type="text"/>
LENGTH / DURATION (at least 1)	
45 hours or more	<input type="text"/>
TOTAL POINTS (at least 4 points total)	<input type="text"/>

Research

- Astronomy
- Atmospheric
- Biological
- Chemistry
- Computer
- Engineering
- Cyberinf
- Departm
- Earth Sci
- Education
- Engineer

(REUs)

- Values Studies
- Science and Engineering
- Research
- Social Sciences
- Arts
- Business
- Business Innovation Research
- Behavioral, and Economic Sciences

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Curso Investigacion RISE-UP

INCI 4998

**Introducción a la
investigación subgraduada**

1 cred



INCI 4998

**Evaluación de la respuesta sísmica y
posibles medidas de mitigación**

2 cred

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Curso Investigacion RISE-UP (Estructuras - 2 créd.)

Evaluación de la respuesta sísmica y posibles medidas de mitigación ante la secuencia sísmica del 2020 en Puerto Rico.

Objetivos:

- Identificar conceptos básicos de vulnerabilidad y resiliencia usando como referencia los hechos que han venido ocurriendo durante la actual secuencia sísmica.
- Entender y aplicar los conceptos y procesos básicos requeridos para el diseño y evaluación de estructuras civiles sometidas a cargas sísmicas.
- Desarrollar modelos numéricos capaces de replicar la respuesta sísmica de alguno de los tipos de estructuras que se han visto afectados durante la secuencia sísmica.
- Modelar y evaluar posibles medidas para mitigar la magnitud del daño estructural causado por eventos sísmicos.

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Curso Investigación RISE-UP (Introducción a la Inv. – 1 créd.)

Introducción a la Investigación Subgraduada

Objetivos:

- Aprender a hacer revisiones de literatura
- Aprender a preparar posters, artículos y reportes
- Explorar opciones para Escuela Graduada


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Otras oportunidades

The screenshot displays the website for Habitat for Humanity of Puerto Rico. At the top left is the Habitat for Humanity logo. To its right is a search bar with the text "Looking for something?" and a magnifying glass icon. Further right are social media icons for Facebook, Twitter, YouTube, Pinterest, and Instagram. A red "DONATE" button is positioned at the top right. Below these elements is a navigation menu with links for "Volunteer", "Shop", "Support", "Advocacy", "Impact", "Housing Help", and "About". The main content area has a dark red background. On the left, it shows the breadcrumb "Home > YOUR LOCAL HABITAT", the title "HFH of Puerto Rico", and contact information: "1357 Avenida Ashford, PMB 135, San Juan, PR 00907-1400, United States". To the right of the address are icons and text for the website "habitatpr.org", email "habitatpuertorico@yahoo.com", and phone number "(787) 368-9393". On the right side of the main content area is a photograph of a smiling young boy in a blue and white striped shirt.

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Otras c




1357 A
PMB
San J
United




RESEARCH / INTERNSHIP ALTERNATIVES EVALUATION CHART

	POINTS
TOPICS (at least 1)	
Assessment of infrastructure vulnerability	<input type="checkbox"/>
Coastal Resiliency	<input type="checkbox"/>
Disaster preparedness	<input type="checkbox"/>
Disaster response and recovery	<input type="checkbox"/>
Emergency Infrastructure Projects	<input type="checkbox"/>
Emerging materials (sustainable/ resilient)	<input type="checkbox"/>
Life-cycle costs	<input type="checkbox"/>
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Electrical Engineering	<input type="checkbox"/>
Social and community fields	<input type="checkbox"/>
Surveying	<input type="checkbox"/>
LENGTH / DURATION (at least 1)	
45 hours or more	<input type="checkbox"/>
TOTAL POINTS (at least 4 points total)	<input type="checkbox"/>



[DONATE](#)

[Impact](#) [Housing Help](#) [About](#)



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- Otros:
 - Habitat for the Humanity - Puerto Rico
 - TBD

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