

## 2012 Student Leadership Awards Application Form

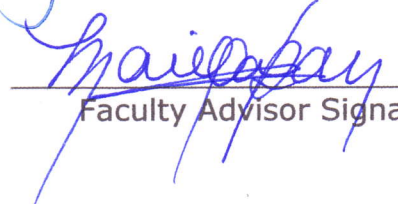
Please complete all fields and e-mail this form to [undergrad@acs.org](mailto:undergrad@acs.org) (include "2012 Leadership Awards" in the subject line) or FAX to 202-872-8068. All paid student members who have completed at least one year of undergraduate studies in the chemical sciences and have held elective office in an active student chapter are eligible to apply. Preference will be given to sophomores and juniors.

**All applications must be received by October 26, 2011**

1. Full Name:	Julissa L. Rivera-Díaz
2. Email Address:	julissa.rivera2@upr.edu
3. SSN:	598-32-5304
4. Mailing Address:	HC 65 Buzon 4309 Patillas P.R. 00723
5. Telephone:	(187) 374-9111
6. Fax:	
7. Institution name:	University of Puerto Rico at Arecibo
8. Faculty Advisor /email	Dra. Maiella Ramos Fontán maiellaramos2001@yahoo.com
9. ACS Student Member Number:	30229308
10. Expected Graduation Date:	June 2013

  
\_\_\_\_\_  
Applicant Signature

10/24/2011  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Faculty Advisor Signature

10/24/2011  
\_\_\_\_\_  
Date

## Cover Letter 2012 ACS Leadership Award

My name is Julissa Lys Rivera Díaz. I am a junior undergraduate student pursuing a Bachelor's degree in Technology in Industrial Chemical Processes at the University of Puerto Rico-Arecibo Campus. I can say that I am a very cheerful, honest, humble, hard working and optimistic person. I love to care for people that need help without seeking compensation. I have many dreams and, in every situation that I face, I try to make the best decisions plausible and encourage myself to continue to succeed.

In high school I became the Vice President of the Family Career and Community Leaders of America (FCCLA) Chapter and the leader of the popular arts of the regional chapter of the same student organization. In this Chapter we organized activities to serve the community emphasizing in children, abused women and elderly center. We participated in races against abused children, domestic violence, among others. I also worked as an assistant kindergarten teacher for about three weeks. Furthermore we performed activities to protect the environment like growing trees and starting a recycling campaign.

At UPRA I have had the opportunity to acquire and develop new leadership skills as the President of the ACS Student Affiliates (SA) Chapter. Our chapter has extensive involvement in the community and promotes chemistry by performing interesting and intriguing experiments where kids get interested in science at an early age. We conduct many events with high impact. An example of this is that our chapter always participate in activities at the children museum "*El Museo del Niño*" in San Juan, where many children performed hands-on chemical experiments. Another activity was a visit to *Hogar Reto Juvenil* where we performed experiments and chemical demonstrations, and the young people from this *Hogar* had the opportunity to learn that chemistry is everywhere and how important it is in our lives. We also performed different activities to promote the knowledge of the green chemistry through scientific posters, hands-on activities, talks among others. Our chapter members benefited from these activities in that they share their interest in chemistry and science with the community.

One of the problems that we have encounter in our ACS student chapter is to involve the full membership in as many activities as possible. Sometimes is very hard to deal with personal differences and misunderstanding among students with different

personalities. This situation has been a real challenge. I am committed to continue developing the ability to influence or persuade students to accomplish our chapter's goal. I will continue getting down in the trenches and helping others get the job done.

The above experiences have provided me with the opportunity to acquire valuable leadership skills and abilities. I will continue focusing on students and inspire them trust, energy and enthusiasm in driving our ACS student chapter forward. I will continue influencing the group's behavior, attitudes and actions toward the achievement of the chapter's goals. I will continue emphasizing teamwork delegating tasks and following up its fulfillment. I must regularly be in touch with students, by email, facebook, meetings, or other forms of correspondence. I will ensure other people receive and understand the message with face-to-face interactions. I plan to use these leadership skills to strengthen our ACS student chapter to promote the importance of chemistry in our lives and to encourage people the importance of protecting our environment.

# JULISSA L. RIVERA-DÍAZ

HC 65 BUZON 4309 • Patillas, Puerto Rico 00723 • (787) 374-9111 • julissa.rivera2@upr.edu

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## EDUCATION

- University of Puerto Rico at Arecibo**, Arecibo, PR 2009-Present  
*Bachelor in Technology in Industrial Chemical Processes*
- University of Puerto Rico at Arecibo**, Arecibo, PR 2009-2011  
*Associate degree in Technology in Chemical Engineering*
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## WORK EXPERIENCE

- **Summer Internship**, Naval Research Laboratory - Chemistry Division, Washington D.C.; Use NMR to observe the changes that occur in the aluminum signal of Ti-Al, Zr-Al and Hf-Al nanopowders at different processing temperatures, drawing qualitative and quantitative conclusions about the kinds of structural changes that occur in each sample. Summer 2011
  - **Undergraduate Research Assistant**, University of Puerto Rico at Arecibo, Arecibo, P.R.; Project Title: Bacterial Inhibition with Extracts of Algae *Padina Gymnospora*. Prove if *Padina Gymnospora* Algae inhibit bacterial growth. Soluble extracts in bacterial cultures three Gram (+): *B. Cereus*, *E. Faecalis*, *S. aureus* and two Gram (-): *E. Coli*, *P. Aureginosa* to prove the bacterial inhibition in Penicillin and Bacitracin. Advisor: Dr. Guido Peña, Research Chemist, December 2010-Present
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## LEADERSHIP ACTIVITIES

- **President**, American Chemical Society (ACS) Student Affiliate Chapter, University of Puerto Rico at Arecibo, 2010-2011.
  - **President**, ACS Student Affiliate Chapter, University of Puerto Rico at Arecibo, 2011-2012.
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## ORAL AND POSTER PRESENTATIONS

- Peña, Guido; Rivera, Julissa, Bracero, Karla, Rosario Joel, Romero, Isaac and Arroyo Nahiomy, "Bacterial Inhibition with Extracts of Algae *Padina Gymnospora*", Fifth Forum in Undergraduate Research, Department of Physics and Chemistry, UPRA, May 2011.
  - Peña, Guido; Rivera, Julissa, Bracero, Karla, Romero, Isaac, Aponte, Bethzaida and Rosario, Edmarie "Bacterial Inhibition with Extracts of Algae *Padina Gymnospora*", Fourth Forum in Undergraduate Research, Department of Physics and Chemistry, UPRA, December 2011.
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## AWARDS AND HONORS

- Outstanding ACS Chapter Award to the ACS Student Affiliates Chapter from UPR-Arecibo, 2010-2011.
  - Green Chemistry Chapter Award to the ACS Student Affiliates Chapter from UPR-Arecibo, 2010-2011.
  - Received "Recognition Award" from the Department of Physics and Chemistry for outstanding academic performance in 2011 and 2010.
  - Received "*Lobezna* Distinguished Award" from Institutional Retention Committee in March 2009.
  - ACS Scholar from American Chemical Society 2009-Present.
  - Academic Competitiveness Grant (ACG) Scholars from the University of Puerto Rico at Arecibo 2009-2011.
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## ACTIVITIES

- Member**, ACS Student Affiliates Chapter, University of Puerto Rico at Arecibo, 2009-2012.  
**Member**, Chemical Technology Student Association, University of Puerto Rico at Arecibo, 2009-2012.
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## SKILLS

- Interpersonal skills:** mentor, leader, team work, work in a fast-paced environment, punctual, responsible, and organized.  
**Computer skills:** Microsoft Office, MATLAB and Internet.  
**Laboratory Equipments:** Spectrophotometer, polarimeter, refractometer, AA, UV, UV-Vis, IR, HPLC, Network analyzer and NMR Spectroscopy.
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## REFERENCES

Available upon request.



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October 24, 2011

American Chemical Society  
Attn: Nancy Bakowski  
1155 Sixteenth Street, NW  
Washington, D.C. 20036

Dear Mrs. Bakowski:

I wish to enthusiastically recommend the student Julissa L. Rivera-Diaz whom is applying to the 2012 ACS Leadership Award.

I know Miss Julissa L. Rivera-Diaz since last year. She was the President of the ACS Student Affiliates (SA) Chapter at the University of Puerto Rico-Arecibo (UPRA) Campus. She has been playing an active role in several chapter activities including chemical demonstrations, community outreach, volunteer work, fundraising among others. As a result of her leadership skills the Chapter received the 2010-2011 Outstanding Award and the Green Chemistry Award. She is currently the President of the ACS Student Affiliates (SA) Chapter for the 2011-2012 academic year.

I can say that Miss Julissa L. Rivera-Diaz is an excellent leader, committed with the Institution. She has demonstrated strong interpersonal skills. She is really acknowledged and respected by her peers. She gets really involved for what she is doing. I am sure she will maintain the same quality of work wherever she goes to pursue her academic and professional goals.

I am convinced that it will be in the 2012 ACS Leadership Award program that Miss Julissa L. Rivera-Diaz be granted for her work and give her my enthusiastic recommendation without reservations.

Sincerely,

Maiella L. Ramos, Ph.D.  
Advisor ACS-SA Chapter at UPRA  
Professor  
Department of Physics-Chemistry