Colgate Palmolive seeks to fund 
Rutgers University doctoral candidates 

Ideate and innovate at Colgate! ....a global leader in consumer brands

A year-long, funded experiential learning opportunity

Nominations must be received by Friday, November 20, 2020

Colgate Palmolive and Rutgers University entered into a strategic relationship in 2015 and this opportunity is an outgrowth of past and present research initiatives. Colgate and Rutgers scientists have a long history of collaborating on funded projects that advance technology, product development, operations and manufacturing objectives at Colgate.

This training opportunity, scheduled to start in the Spring 2021 semester, will allow selected doctoral candidates to train at the company’s Piscataway facility and remotely under the guidance of a Colgate mentor. Colgate expects to hire three or more PhD candidates for 2021.

- Rutgers University doctoral candidates will collaborate on a Colgate projects that immerse the candidates in daily tasks applying fundamental science to innovate, support product development/product claims, and solve business challenges. Candidates will develop collaboration skills by partnering with internal scientists and external academic and industrial partners on projects that benefit Colgate products. Additionally, the selected individuals will receive practical training on how to prioritize conflicting projects/tasks and how to effectively communicate/present technical findings with business managers and non-technical personnel.

- Candidates should be self-motivated, capable of writing technical reports, and should be able to think independently, work well with others, and present unbiased evaluation of experimental data and other related information.

- The students must be able to commit 15-20 hours each week to the Colgate project and leadership training at Colgate.

- Colgate will provide a stipend for each participating doctoral candidate that may be used for salary, benefits and tuition.

- Work will begin at Colgate before the end of January 2021.

- The application process is summarized below; the deadline for application materials is Friday, November 20, 2020.
General Candidate Requirements
This opportunity is open to Rutgers University doctoral candidates who have completed qualifying exams and are focusing full-time on his/her research and are nominated by their faculty advisor/PI. Competitive candidates are in at least their third year of their PhD program.

Specific Role Requirements
Colgate is hiring PhD candidates in different roles through this experiential learning program. Applicants must be able to meet one of the role-specific requirements below:

- **Materials Science for Packaging.** Candidates should have a deep understanding of the relationship between polymer micro-structure and the macro-properties; good knowledge on organic chemistry to predict the interaction between packaging material and the ingredients in formulations. Hands-on experience in operating advanced instruments, such as GC/MS, HPLC, XPS, SEM, etc., is desirable.

- **Chemistry.** Candidate should have in depth understanding in material science / engineering / chemistry or related fields. They should be familiar with materials characterization techniques such as various forms of electron microscopy and adjunct materials characterization techniques and should be highly skillful with imaging processing software and techniques.

- **Data Science.** Candidates should have a high level of proficiency in using python as a tool for quantitative analysis. Preference will be given to candidates with demonstrated experience applying machine learning tools or advanced statistical analyses to their particular field of study. Above all, preference will be given to candidates who are passionate and who seek creative solutions to problems.

- **Clinical Imaging & Machine Learning.** Candidates with strong background in image processing, computer vision and machine learning; excellent programming skills, preferably in Python, C/C++, Matlab; sound knowledge in Cloud Computing platforms (AWS or GCP) & GPU based computing platform, solid mathematics foundations, especially statistics, calculus and linear algebra; should be highly motivated and creative. You are encouraged to include a link to your GitHub profile or similar documentation of programming competence in your application.
Application Process
Note to interested student applicants: A student funded by this program may receive health insurance coverage through the Fellows Insurance program provided by the School of Graduate Studies, which would change the student’s health benefits.

Step 1: Faculty Nomination
All candidates must receive a nomination letter from their faculty advisor/PI. The letter should confirm that the candidate is endorsed by the faculty advisor and will be available to spend 15-20 hours/week at the Colgate facility. It should further describe how this opportunity will enhance the doctoral candidate’s training.

Step 2: Student Information
Each candidate must prepare a current CV and a 2-page application letter describing why they are interested in the opportunity, how they meet the role-specific requirements and how the training will advance their career goals.

Step 3: Submission to frontdoor@rutgers.edu
Application materials should be sent via email to frontdoor@rutgers.edu with the subject Colgate 2021 Experiential Learning Opportunity. The deadline for applications is Friday, November 20, 2020.

Step 4: Review and Selection
Colgate will review applications and may optionally select candidates for follow-up interviews. Offer letters will be sent to selected candidates and all candidates will be notified of their application status by Friday, December 11, 2020.