

Université Claude Bernard Lyon 1
University of New Orleans
National Science Foundation
International Research Experiences for Students

**RESEARCH IN CATALYSIS AND PHOTOCATALYSIS
IN LYON, FRANCE – SUMMER 2019**

EXCITING RESEARCH POSITIONS FOR UNDERGRADUATES ARE AVAILABLE IN CATALYSIS AND PHOTOCATALYSIS IN LYON, FRANCE. THE UNIVERSITÉ CLAUDE BERNARD LYON 1 AND L'INSTITUT DE RECHERCHES SUR LA CATALYSE ET L'ENVIRONNEMENT DE LYON, IRCELYON (THE INSTITUTE OF RESEARCH ON CATALYSIS AND THE ENVIRONMENT OF LYON) ARE ESTABLISHED EUROPEAN CENTERS OF EXCELLENCE FOR CATALYSIS AND PHOTOCATALYSIS RESEARCH. SELECTED UNDERGRADUATE STUDENTS WILL PARTICIPATE IN PRE-TRAVEL VIRTUAL ORIENTATION PROGRAMS, AN ON-SITE ORIENTATION IN LYON, RESEARCH IN CATALYSIS OR PHOTOCATALYSIS IN LYON, AND ADDITIONAL ENRICHMENT ACTIVITIES IN LYON. POST-PROGRAM FOLLOW UP ACTIVITIES WILL ALSO OCCUR, AND TRAVEL FUNDS WILL BE AVAILABLE FOR PRESENTING RESEARCH RESULTS AT A REGIONAL OR NATIONAL CONFERENCE IN THE US.



FULL TIME POSITIONS BEGIN MAY 27, END JULY 26, 2019,* AND ARE ACCOMPANIED BY A STIPEND OF \$5000. HOUSING, MEAL, AND TRAVEL COSTS ARE ALSO INCLUDED.

College students entering the sophomore, junior, or senior year in Fall 2019 or students beginning graduate studies in Fall 2019 are eligible. Strong preference will be given to students with prior research experience. No French language skills are required, but a willingness to learn is necessary. Consideration of applications will begin by Jan. 25, 2019. To apply, submit the materials listed below. Program open to US citizens and permanent residents without graduate school enrollment prior to Aug. 1, 2019. Notification of acceptance to the program will be made via e-mail as early as Feb. 15, 2019. To apply, submit these items:

- On line [Application Form](#) (preview provided below)
- Three letters of recommendation
- An unofficial college transcript (official transcript will be required if accepted to the program)

Have letters and transcripts sent to be received by **Jan. 25, 2019** to the e-mail address below.

Liz Sigler
Center for Undergraduate Research
University of New Orleans
2000 Lakeshore Drive, ADA 1005
New Orleans, LA 70148
cur@uno.edu

This program is supported by the National Science Foundation

The University of New Orleans is an Equal Opportunity/Affirmative Action Employer

*All program dates are tentative

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IN LYON, FRANCE – SUMMER 2019

Program Participants Will Receive:

- \$5000 Stipend
- Round-trip transportation from US to Lyon
- Housing in Lyon
- Meal allowance
- International health insurance
- French cell phone during program
- Lyon metro pass
- Funding to present research findings at a US conference (contingent on sufficient research progress)

Program Participants Must Commit To:

- Three afternoon virtual training sessions (Mar. 16, Apr. 13, May 25*)
- Obtaining a valid US passport prior to March 15 (expiration date no earlier than Jan. 31, 2020)
- Completing 30 minutes per week of French familiarization with Duolingo February through May
- Arriving in Lyon on May 28* (departing US on May 27)
- Attending all orientation programs in Lyon, France
- Participating in full time research activities on site at UCBL
- Participating in all scheduled enrichment activities in Lyon
- Presenting an end of program poster at UCBL on July 26*
- Participating in a post-program virtual workshop (afternoon of Aug. 17*)
- Completing program evaluation forms
- Sharing your experience with fellow students

No Prior French Language Skills Required

Preference Given to Students with Previous Research Experience and Demonstrated Responsibility

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Potential Research Projects:

- 1) Professor Corrine Ferronato: Photocatalytic degradation of organic micro-pollutants and identification of carboxylic acid based intermediates using HSTrap/GC/MS
- 2) Professor Jean-Marc Chovelon: Photocatalytic degradation of furosemide and identification of its main intermediates
- 3) Professor Anne Giroir-Fendler: Cobalt oxide catalyst for propane oxidation
- 4) Professor Claude Descorme: Adsorption of micropollutants in water
- 5) Professor Pascal Fongarland: Non-destructive extraction of hemicelluloses in ionic liquids for catalytic valorization
- 6) Dr. Chloé Thieuleux: Development of bimetallic nanoparticles: looking for synergetic effects in catalysis
- 7) Professor Peter Strazewski: Phospholipids and Designed Fluorophores for the Detection of Peptides Synthesized on and within Giant Vesicles
- 8) Dr. Chantal Guillard: Photocatalytic Efficiency of Luminous Textiles for Pesticide Removal
- 9) Professor Didier Leonard: Analysis of physical and chemical properties of surface functionalized materials, especially with ToF-SIMS and XPS characterization

Due to shifts in personnel and funding, available projects may change.

[Application Preview - click here to go to live application](#)

Université Claude Bernard Lyon 1, University of New Orleans, National Science Foundation International Research Experiences for Students (IRES)

Application for RESEARCH IN CATALYSIS AND PHOTOCATALYSIS IN LYON, FRANCE: Summer 2019

* Required

Citizenship *

Only U.S. citizens and permanent residents are eligible.

- ☐ U.S. Citizen
- ☐ U.S. Permanent Resident (provide documentation)
- ☐ Other (not eligible for this program)

Have you already started a graduate program? *

Those who have already started a graduate program are not eligible.

- ☐ No
- ☐ Yes (not eligible to apply)

Last Name *

Your answer

First Name *

Your answer

Date of Birth *

Your answer

Address *

Your answer

City *

Your answer

State *

Your answer

Zip Code *

Your answer

Phone Number *

Your answer

Email address *

Your answer

Gender *

- ☐ Male
- ☐ Female
- ☐ Other

College *

Indicate what college you currently attend. If transferred/transferring, indicate both schools.

Your answer

In Fall 2019 I will be a/an: *

- ☐ Sophomore
- ☐ Junior
- ☐ Senior
- ☐ Entering graduate student

My expected bachelor's degree graduation date is *

MM DD YYYY

____ / ____ / 2018

Undergraduate GPA *

(Indicate college GPA on a 4.0 scale)

Your answer

Race *

(select one or more)

- ☐ Black
- ☐ Native American
- ☐ Asian
- ☐ Pacific Islander
- ☐ White

Ethnicity *

(select one)

- ☐ Hispanic
- ☐ Not Hispanic

Undergraduate Major *

(Current or intended undergraduate major)

Your answer

Career Goals *

Briefly describe your career goals and motivation. If you plan to attend graduate/professional school, indicate what type of program and why.

Your answer

Personal Statement *

Describe your background and your interest in this program (~1 page). Address how your background fits with this program and how the program will enhance your career and its impact.

Your answer

Describe Prior Research Experience, if any:

Your answer

Work Experience, if any (firm, position, dates, duties):

Your answer

How did you learn about this program? *

Your answer

Prioritization of research projects - 1st choice *

Mark your 1st choice of research.

Choose



Prioritization of research projects - 2nd choice *

Mark your 2nd choice of research.

Choose



Prioritization of research projects - 3rd choice *

Mark your 3rd choice of research.

Choose



Prioritization of research projects - 4th choice *

Mark your 4th choice of research.

Choose



Prioritization of research projects - 5th choice *

Mark your 5th choice of research.

Choose



In addition to this application form, submit to cur@uno.edu:

1. Three letters of recommendation sent directly from references
2. An unofficial college transcript

SUBMIT

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