

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 2018

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 23, END JULY 27, 2018,*
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 2018 are eligible, but 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. 26, 2018. To apply, submit the materials listed below. Program open to US citizens and permanent residents who will not hold a bachelor's degree prior to Aug. 1, 2018. Notification of acceptance to the program will be made via e-mail as early as Feb. 16, 2018. To apply, submit these items:

- Application Form: [Click Here](#) to Preview Form; [Click Here](#) to Apply
- Three letters of recommendation
- An unofficial college transcript (official transcript will be required if accepted to program)

Have letters and transcripts sent to be received by **Jan. 26, 2018** 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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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. 17, Apr. 14, May 19*)
- Obtaining a valid US passport prior to March 23 (expiration date no earlier than Jan. 31, 2019)
- Completing 30 minutes per week of French familiarization with Duolingo February through May
- Arriving in Lyon on May 24* (departing US on May 23)
- 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. 11*)
- 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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Available Research Projects in Lyon:

- 1) Prof. Jean-Marc Chovelon
Photocatalytic degradation of furoseamide and identification of its main intermediates
- 2) Prof. Claude Descorme
Adsorption of micropollutants in water
- 3) Prof. Corinne Ferronato
Photocatalytic degradation of organic micro-pollutants and identification of carboxylic acid based intermediates using HSTrap/GC/MS
- 4) Prof. Pascal Fongarland
Nondestructive extraction of hemicelluloses in ionic liquids for catalytic valorization
- 5) Prof. Anne Giroir-Fendler
Cobalt oxide catalyst for propane oxidation
- 6) Prof. Anne Giroir-Fendler
Cobalt catalyst for VOC abatement
- 7) Prof. Peter Goekjian
Fluorous Solvent Droplet Catalysis in Fluorous Tag Oligosaccharide Synthesis
- 8) Prof. Peter Strazewski
Phospholipids and Designed Fluorophores for the Detection of Peptides Synthetized on and within Giant Vesicles
- 9) Prof. Chloé Thieuleux
Development of bimetallic nanoparticles: looking for synergetic effects in catalysis