## THE UNIVERSITY OF ALABAMA 2018 APPLICATION FOR RESEARCH EXPERIENCE FOR UNDERGRADUATE (REU) IN CHEMISTRY MAY 29 – AUGUST 3, 2018 APPLICATIONS DUE FEBRUARY 28, 2018

1.	Full name: Ms./Mr.			_ Date:								
	Preferred name:		E-mail address:									
2.	Address: (present):											
(permanent):												
	Permanent home phone number:											
	College phone number where you can be reached in March/April/May:											
3.	Date of Birth:	4. Citizenship:										
5.	College(s) and University(ies) attended, with dates:											
6.	Academic Status: Sophomo	re	Junior	Senior								
7.	Expected graduation date		Overall GPA	Chem. GPA	۸							
8.	. List courses taken in college and grades. (Indicate those you are taking at present).											
	Course	Grade	Course		Grade							
	General Chemistry I		General Chemis	try II								
	Organic Chemistry I		Organic Chemis	Organic Chemistry II								
	Organic Laboratory I		Organic Laborat	tory II								
	Physical Chemistry I		Physical Chemis	stry II								
	Other Chemistry name:		Other Chemistry	/ name:								
	Mathematics I		Mathematics II									
	Mathematics III		Mathematics IV									
	Physics I		Physics II									
	Biology I		Biology II									
	Other Science:		Language:									
9.	Earliest date you could begin	n research:										
10.	Do you plan to attend gradua If "yes" in chemistry ( Does medical school figure a	ate school? ) or biochemi in your plans?	Y stry ()?Y	es Other /es	No ? No							

11. Names, titles and addresses of two persons whom you have asked to write letters of recommendation. Include at least one person who can comment on your laboratory skills.

	Name	Address					
	Name	Address					
	These letters should be sent to:	Ms. Monika Swanger, Dept. of Chemistry, Box 87 The University of Alabama, Tuscaloosa, AL 3548	70336 87-0336				
12.	Enclose with this application a goals. Indicate how you think these goals.	a short, one-page letter in which you summarize ye that participation in this program will assist you in	our career 1 attaining				
13.	Indicate your top four (or more) choices of research projects or areas in order of preference:						
	First Choice Fourth Choice	Second ChoiceThi Other Choice	rd Choice				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21							
22 23 24 25	Development of Catalytic Diversity in Development of Chemical Sensors for Development of Novel Catalytic Reac DNA Origami without the DNA	n an Enzyme Scaffold r Airborne Pollutants ction Methodology					
26 27 28 29	Dye-Sensitized Solar Cells: Designing Electrochemical and Optical Sensors Electron Transfer in DNA Processing Environmentally Friendly Methods for	g Molecules to Move Electrons Around g Enzymes or Converting Carbon Dioxide to Useful Products					
30 31 32 33 34	Ethics in Chemistry Fluorescent Nucleosides for DNA and Investigation of Protein Dynamics usin Mass Spectrometry Ionization of Bion Mass Spectrometry Studies of Pertide	d RNA ing Mass Spectrometry molecules					
35 36	Measurements of Potential Single-Mo Medium Ring Carbocycles and Cytoto	oslecule Rectifiers oxic Xenia Diterpenoids					

- 37 Metal and Metal Oxide Nanoparticle Catalysis
- 38 Metallotherapeutics
- 39 Metals and Free Radicals in Proteins
- 40 Nanoelectrochemistry for Ultrasensitive Detection
- 41 Nanomaterials for Batteries
- 42 Nanoparticle Synthesis for Solar Cell Applications
- 43 New Catalysts for Environmentally Benign Synthesis
- 44 New Reagents for Organic Synthesis
- 45 Novel Antiinflammatory and Anticancer Agents
- 46 One-Pot Heterogeneous Catalysts for Green Chemistry
- 47 Organic Solar Cells
- 48 Organometallic Catalysts in Organic Synthesis
- 49 Polymer-based Phosphate and Nitrate Sensors for Environmental Applications
- 50 Porous Carbon-Based Catalysts for Fuel Cells
- 51 Searching for Better Perovskite Solid Solar Cells
- 52 Separating Carbon Nanotubes by Derivatized End-Groups Followed by Ion-Exchange Chromatography
- 53 Structure and mechanism of antibiotic resistance rRNA methyltransferases
- 54 Synthesis of Agents for the Treatment of Diabetes
- 55 Synthesis of Inorganic Materials Using Biological Templates
- 56 Synthesis of Nanostructured Thermoelectrics: Materials that Convert Heat into Electrical Power
- 57 Synthesis of Novel Separation Geometries
- 58 Synthesis of Novel, Geologically-Inspired Oxides for Magnetic Applications
- 59 Synthesizing New Organic Molecules Capable of Reversible Photo-Electro-Stimulated Flexing
- 60 Synthesizing Organic Molecules that Reversibly Change Shape and Color upon Redox Change
- 61 The Design and Synthesis of Conjugated Polymers for Solar-cell Applications
- 62 The Synthesis of Charged, Ultra-high-performance Polymers
- 63 The Synthesis of Polyimines: Polymers for CO2 Capture and Drug Delivery
- 64 Thin Film Synthesis of Novel Oxide Materials Using Pulsed Laser Deposition
- 65 Total Synthesis of Natural Products

## EVALUATION REPORT SUMMER RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU) PROGRAM IN CHEMISTRY

ATTN.: Ms. Monika Swanger Summer Undergraduate Research Program Department of Chemistry, Box 870336 The University of Alabama Tuscaloosa, AL 35487

Student Name

Instructions to Reference: Please comment on the applicant's background and achievement in chemistry, his or her laboratory skills, and his or her potential for independent study. Please mail this form to Dr. John Vincent at the above address. Thank you for your help.

Evaluation of Student	Excellent				Poor	
Work habits	1	2	3	4	5	No basis to judge
Ability to follow directions	1	2	3	4	5	No basis to judge
Scientific curiosity	1	2	3	4	5	No basis to judge
Maturity	1	2	3	4	5	No basis to judge
Chemical knowledge for college level	1	2	3	4	5	No basis to judge
Name:			_Dat	e:		
Position or Title:						