

Andrews University

Department of Engineering & Computer Science

UNDERGRADUATE RESEARCH APPLICATION

THANK YOU for your interest in pursuing undergraduate research in Engineering and/or Computer Science at Andrews University! Research brings rich opportunities for you but also requires significant commitment. You will want to be fully aware of both opportunities and required commitments before you complete and submit this contract.

OPPORTUNITIES: When you participate in research, you will:

- Learn science by doing it, participating with others and an experienced mentor. You will work in one of a diverse area of study or teams (see below).
- Gain significant one-on-one experience with your faculty mentor. This is a great way to earn an excellent recommendation – if you are diligent and faithful!
- Develop essential personal competencies for graduate school, and for employment. Critical thinking, problem solving, diligence & persistence, teamwork, etc.
- Contribute in a real way to pushing back the boundaries of ignorance! This is fun!
- In most cases, develop a project far enough that you earn authorship on the resulting presentation or publication.

RESPONSIBILITIES: Research also comes with core commitments, and you need to understand this right up front. Before you begin, you must commit to:

- Consistently display a high standard of professionalism & ethics. This includes reliability & punctuality, high integrity in the collection and use of data, and faithful note-taking as instructed by your mentor.
- Register for CPTR490 – Research (0-6 credits), ENGR490 – Research (0-3 credits) or HONS 497H – Honor Research (1-2 credits)
 - Dedicate at minimum the following numbers of hours to research: 45 hours per credit, with sufficient time each week to keep your project running smoothly (as determined with your mentor)

Area of Study	Faculty Mentor	Contact
Engineering	Dr. Hyun Kwon	hkwon@andrews.edu
Engineering Physics	Dr. Jay Johnson	jrj@andrews.edu
Engineering	Dr. Gunnar Lovhoiden	gunnar@andrews.edu
Materials Engineering	Dr. Boon-Chai Ng	ngb@andrews.edu
Computer Science	Dr. Rodney Summerscales	summerscales@andrews.edu
Computer Science	Dr. Roy Villafane	villafan@andrews.edu
Computer Science	Mr. William Wolfer	wolferb@andrews.edu

QUESTIONS? Contact the Engineering & Computer Science Office (ECS), Harrigan Hall 229, engineering@andrews.edu or computing@andrews.edu, 269-471-3420

ENGINEERING & COMPUTER SCIENCE UNDERGRADUATE RESEARCH APPLICATION

*Applications for research: Summer semesters are to be turned in to the ECS office by April 1.
 Fall Semester are to be turned in to the ECS office by August 1
 Spring semester are to be turned in to the ECS office by November 1.*

Name: _____ ID# _____ Major: _____

Phone number: _____ Email: _____ GPA: _____

Class standing: Freshman Sophomore Junior Senior

Term for research*: Fall Spring Summer Year: _____

**It is often beneficial to carry out research over at least two semesters. If this is your interest, please check more than one semester.*

Tell us about your interest in research! Why would you like to pursue this opportunity—given the significant responsibilities it entails?

Research preference: From the list of research areas of study on the prior page, visit with a mentor for 3 different areas. List the area below, have the faculty member sign (indicating you have visited with them – not a promise to take you as a research student) and rate them from 1 (most interest) to 3 (least interest).

Lab or Team	Faculty Signature	Rank Interest (1-3)

PERSONAL COMMITMENT - Given the significant responsibilities that come with the privilege of research, my initials beside each of the following points indicate that I understand and agree to each commitment.

- | <u>Initials</u> | <u>Commitment</u> |
|-----------------|--|
| | Consistently follow high standards of professionalism and ethics in my work. This includes, but is not limited to, being reliable, punctual, showing high integrity in the collection and use of data, and faithfulness & care in note-taking. |
| | Register for CPTR490, ENGR490 or HONS 497H if you desire credit or have it listed on transcript. |
| | Dedicate <u>at least</u> the minimum hours required by research credit registration (45 hours per credit). |
| | Follow the <u>weekly research schedule</u> agreed on with my mentor to ensure timely completion of the project – even when I have other pressing commitments, such as tests. |

My signature below indicates that I have serious intent to participate in undergraduate research in ECS and I have truthfully completed this application.

Name (printed): _____

Signature: _____

Date: _____

FOR OFFICE USE ONLY

Application received date: _____ Approved: Y/N Date: _____

Approved by: _____

Area Assigned: _____