RET Application Form

First Name

_____

Last Name

_____

Preferred Email (Note: You will receive a copy of your application in this email.)

_____

Are you a US citizen or permanent resident?

○ Yes

○ No

Are you within daily commuting distance of the University of South Alabama main campus?

○ Yes

○ No

Which school district do you teach in?

_____

At which school do you currently work?

_____

What type of school are you teaching?

○ Public District High/Junior High

○ Public District Middle

○ Public Magnet High/Junior High

○ Public Magnet Middle

○ Private Middle

○ Private High/Junior High

○ Others (please specify): _____

What subject(s) are you currently teaching (e.g. math, chemistry, etc.) ?

_____

How many years have you been teaching this subject?

_____

What level(s) of the course are you teaching in this subject?

○ regular

○ honors

○ AP/IB

Have you participated in a research project before?

○ Yes

○ No

What is your prior experience in curriculum development and implementation?

○ I have helped to develop plans for a new curriculum and have implemented the newly developed curriculum in my class(es).

○ I have helped to develop plans for a new curriculum, but have not implemented the newly developed curriculum in my class(es).

○ I have not helped to develop any new curriculum, but have implemented a newly developed curriculum in my class(es).

○ I have not formally developed or implemented any new curriculum in my classroom.

Do you have any computer programming experience before?

○ Yes.

○ I am not sure.

○ No.

Please rate your level of competence with the following Microsoft tools.

	Never used it	Minimal experience	Some experience	Substantial experience	Extensive experience
Microsoft Word	○	○	○	○	○
Microsoft PowerPoint	○	○	○	○	○
Microsoft Excel	○	○	○	○	○

Please rate your level of competence with the following programming languages

	Never programmed in this language	Minimal experience. Maybe compiled a test program.	Some experience. Wrote one or two small programs.	Substantial experience. Wrote several small to medium-sized programs.	Extensive experience. Wrote many programs.
C++	○	○	○	○	○
JAVA	○	○	○	○	○
Visual Basic	○	○	○	○	○
MATLAB	○	○	○	○	○
Python, Perl or other scripting based languages	○	○	○	○	○
JavaScript, html, ASP or other web based languages	○	○	○	○	○
Scratch, Blockly, or other block-based coding	○	○	○	○	○
Others (please specify):	○	○	○	○	○

Please rate your level of competence with the following knowledge.

	None. Not aware or have very little knowledge	Aware. Heard about it. Limited knowledge and/or ability to apply the skill	Knowledgeable. Comfortable with knowledge or ability to apply the skill.	Proficient. very comfortable, an expert; could teach this to others
Electrical knowledge (e.g. circuit)	◯	◯	◯	◯
Spectrometer knowledge	◯	◯	◯	◯
Optical knowledge (e.g. wavelength of light)	◯	◯	◯	◯
Image knowledge (e.g. pixels, compression)	◯	◯	◯	◯
Experimental (wet) lab (e.g. biology lab, physics lab)	◯	◯	◯	◯

If accepted, you will be assigned into one of the following research projects (see their brief description at https://usa-ret.weebly.com/research-projects.html). Rank the projects based on your interest.

	Very Interested	Moderately Interested	Slightly Interested
Project #1. Application: Excitation-Scanning Hyperspectral Imaging of Tissues for Cancer Detection	◯	◯	◯
Project #2. Algorithm: Implementation of Spiking Neural Networks for Cancer Detection (Mathematics and Programming Focused)	◯	◯	◯
Project #3. Architecture and Circuit: Power-Efficient Crossbar Synaptic Memory for SNN	◯	◯	◯
Project #4. Device: Mitigating Device Variations of Memristors to Enable Biologically-Inspired Computing	◯	◯	◯

Have you previously submitted an application for consideration to this program?

○ Yes

○ No

Describe the research project that you have participated before. What was one outcome from that project if it has impacted your school/curriculum? If you have participated in multiple research projects, include a brief description of other projects, such as their names, research areas, and duration, at the end.

_____

_____

_____

_____

_____

Describe your prior curriculum development and implementation experience.

_____

_____

_____

_____

_____

Describe why you are interested in this RET program.

_____

_____

_____

_____

What are your personal and professional goals of participating in this RET program?

_____

_____

_____

_____

_____

Please describe what your school's STEM goals are, and how you personally contribute to these goals. STEM is the abbreviation of Science, Technology, Engineering, and Math.

_____

_____

_____

_____

_____

Answers on this page are for the purpose of program report and in no way affect your application. All responses are strictly confidential.

Age

_____

Gender

○ Male

○ Female

○ An identity not listed, self-identify
_____

Ethnicity

○ African American or Black

○ American Indian or Alaska Native

○ Asian American or Asian

○ Hispanic or Latino

○ Middle Eastern

○ Pacific Islander

○ White or Caucasian

○ An identity not listed, self-identify
_____

Do you identify as someone with a disability?

○ Yes, I have a disability.

○ No, I do not have a disability.

○ I prefer not to disclose.

Do you have a need for disability services, for example wheelchair access?

○ Yes (please specify what service you need).
_____

○ No.

Veteran Status

○ I am not a veteran.

○ I am an active veteran.

○ I prefer not to disclose.

How did you hear about us?

☐ School principal

☐ Other teachers

☐ Internet search

☐ A paper flyer

☐ Email

☐ Other (please specify):
_____

This is the end of the application form. Click the Submit button below and submit your application.

Please remember to email your **resume** in the formats of Word Document or PDF to both of the following emails: nagong@southalabama.edu, shzha@southalabama.edu. Your resume shall include the information of your current contact information, teaching experience, research experience, courses taught, publications, and extracurricular activities.

We look forward to receiving your **reference letters** in the two email addresses, too!