Application Form for LANL Radiation Effects Summer School 2021

Deadline: Friday, Jan. 22nd, 2021, 11:59 p.m. Mountain Time
Program information: http://radfx-school.lanl.gov/   (LA-UR-20-24136)

1. Basic Information (*all fields required*)

Name (*First, M.I., Last***):**

Best phone number:

Best email address:

Conflict of interest
Do you have a near relative (spouse/domestic partner, child, step-child, sibling, parent, or in-law) who is an employee of Triad, LLC / Los Alamos National Laboratory?

    Yes

    No

Eligibility
Successful applicants for the Radiation Effects Summer School must be at least 18 years old. Both US citizens and foreign nationals who have authorization to work in the US will be considered for acceptance.

Will you be at least 18 years old by June 7th, 2021?   Citizenship

    Yes   US citizen

    No   Non-US citizen including US Permanent
                                           Resident Alien (green card holders)

Prior work at LANL
Have you worked at LANL before?

    Yes   If yes, name of mentor:

    No

2. Education

Highest level of schooling completed by beginning of summer school? (*Required*)

List the colleges/universities you have attended, starting with your current or most recent institution. If you have attended multiple schools, list them from most recent to earliest. Convert GPA to a 4.0 scale.

Current School (*All fields required*)
Enter the information for your current school. Enter the expected date of degree completion and what degree you expect to receive.

 Name of institution: GPA:

 Start date: Expected completion date:

 Degree awarded: Major / field of study:

Previous School

Name of institution: GPA:

Start date: End date:

Degree awarded: Major / field of study:

Additional School

If you attended a third college or university, please enter it here. If you have attended more than three institutions, that information should be on the resume included with your application.

Name of institution: GPA:

Start date: End date:

Degree awarded: Major / field of study:

3. Communication skills

Experience with presentations
Have you presented technical material in any of the following scenarios? Please check all that apply.

      Oral presentation at a conference or symposium

      Poster presentation at a conference or symposium

      Oral presentation for a university class, research group meeting, or workplace meeting

      Poster presentation for a university class, group meeting, or workplace meeting

      Taught a university class or workplace seminar

Experience with reports
Have you written technical material in any of the following scenarios? Please check all that apply.

      First author on a peer-reviewed journal article, conference paper, or white paper

      Co-author on a peer-reviewed journal article, conference paper, or white paper

      Technical report for a university class or workplace

If you checked any of the boxes in section 3, you are encouraged to provide more details (title, location, dates) on a separate sheet for presentations, reports, and classes not listed on your CV.

4. Radiation testing experience

Do you have prior experience with radiation testing? Please check any activities that apply. You are encouraged to provide more written detail as a supplement to your application package if you wish. .

Test design	Coding for instrumentation or DUT control
Data analysis	Hands-on experience with radiation source or facility
Coding for data analysis	Writing radiation reports

5. Technical skills

Subject Matter Expertise

In the questions that follow, please indicate areas in which you have either taken one or more classes, or had significant involvement in a related research project.

Engineering and Science

       Astronomy/Astrophysics
       Analog amplifiers
       Electrical Engineering
       Experimental Methods
       Field Programmable Gate Arrays (FPGAs)
       Materials Science
       Microcontrollers (such as TI MSP430 or TI Tiva ™ C-series)
       Nuclear Engineering
       Physics
       Radiation Effects
       Radiation Sources (including accelerators, gamma-ray / x-ray sources, ion beams, lasers, radioisotopes)
       Radio Frequency (RF) design
       Semiconductor devices
       Test and measurement equipment (oscilloscopes, current / voltage meters, multimeters, etc.)
       Other

Computer Science

       Algorithms and Data Structures
       Data analysis
       Hardware description languages: Verilog   VHDL   System Verilog
       Introductory Computer Science
       L4T (Linux for Tegra)
       Linux kernels
       Machine Learning
       Neural networks
       Numerical Analysis or Numerical Methods Parallel Computing
       Programming languages: C   C++   CUDA   Embedded C   OpenCL   Python
       Relational databases
       Scripting in data analysis tools: Mathematica   Matlab   R
       Other

Mathematics

       Introductory Calculus
       Linear Algebra
       Ordinary Differential Equations
       Partial Differential Equations
       Probability and Statistics
       Real or Complex Analysis
       Other

Programming

You may list up to three programming languages you know along with your skill level. For reference, beginner means you have taken a class in the language, intermediate means you have used the language in two or more classes or on projects, advanced means you use the language on a regular basis, and expert means you are fluent in the language and use it weekly.

Language 1

Language 1 proficiency

Language 2

Language 2 proficiency

Language 3

Language 3 proficiency

6. Signature (*all fields required*)

_____   _____   _____

Signature   *Print name*   *Date*

Final application submission:

Print out this form, sign it, and scan a copy. Your application package must include the signed and scanned application form along with the other required documentation in a single PDF file. **Submit your application package as a single PDF file emailed to radfx-school@lanl.gov by Friday Jan. 22nd, 2021, 11:59 p.m. Mountain Time.** See the "Application Process" section at http://radfx-school.lanl.gov for more details.

Application package requirements:
1. Cover letter
2. Current CV including full list of publications and presentations (no page limit)
3. Undergraduate and graduate transcripts from all schools attended (**be sure to block out your social security number and birthday)**
4. Brief description of your graduate program
5. Signed and scanned application form
6. Nomination letter from your advisor.
   - Guidance for advisors: please provide information about the applicant's technical work, written and verbal technical communication skills, and ability to work well with others.
7. Two additional reference letters (if you are NOT enrolled in a graduate program in the U.S.)