

Opportunity Title: Nuclear Engineering Science Laboratory Synthesis (NESLS) - Summer 2015
Opportunity Reference Code: NESLS-Summer2015

Organization Oak Ridge National Laboratory (ORNL)

Reference Code NESLS-Summer2015

Application Deadline 2/28/2015 11:59:00 PM Eastern Time Zone

Description NESLS Goals

- Maximize the abilities of students through cooperative research with mentors at a national laboratory
- Increase on-the-job research opportunities
- Provide a learning environment useful to both national laboratories and students
- Train next generation nuclear scientists

Nuclear Security TechnologiesMaterial protection, control, and accountingRadiation detectionSafeguardsTransportation technologiesArms control assessmentsFissile material DetectionExport controlFissile material dispositionNuclear threat reduction **Nuclear Systems Analysis, Design, and Safety**Radiation shieldingSystems analysisReactor physicsFacility safetyCriticality safetyRisk assessmentThermal hydraulicsRegulatory supportNuclear data and codesSystem instrumentation and controlsMaterial and fuel irradiationEnrichment technologyAdvanced space reactors **Fuels, Isotopes, and Nuclear Materials**Nuclear fuelsSeparations science and technologyHeavy element productionNuclear process and equipment designStable and radioactive isotopesRobotics and remote handlingMedical isotope developmentChemical engineering

While You Are Here:

- Enrich your laboratory experience by attending the lecture series to learn of the work of outstanding speakers
- Network with laboratory research staff and with fellow students through work and social events
- Take technical tours of facilities at ORNL
- Prepare and present your project to laboratory staff and fellow students


Selection: The award will be based on mentor's selection and project funding availability.

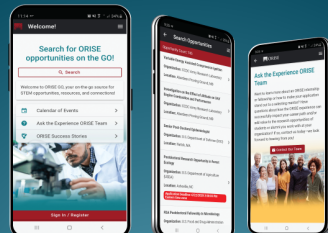
Duration: The award is an appointment of at least 10 weeks. Renewals are limited.

Benefits: Travel to and from (max \$1000); Housing allowance of \$150/week if located more than 50 miles from Oak Ridge.

Health Insurance: Each participant is required to have coverage in a health insurance plan. It is the responsibility of each participant to secure insurance coverage before arriving at the appointed site.






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NESLS Weekly Stipend Rates

Class Status*

Stipend

First Year (Freshman)

\$529/wk

Second Year (Sophomore)

\$593/wk

Third Year (Junior)

\$653/wk

Fourth Year (Senior)

\$726/wk

Masters Student

\$863/wk

PhD Student

\$935/wk

Denotes class status completed **prior to ORNL report date.*

Summer deadline to apply is February 28, 2015. Students should be notified of acceptance to the summer NESLS program in April 2015.

For additional program information contact:

Julie Ezold

Phone: (865) 574-9594

Email: ezoldjg1@ornl.gov

For questions on the application or appointment details, you may also contact ORNLedu@ornl.gov.

Qualifications ***Eligibility:*** The ORNL NESLS program is open to full- or part-time students enrolled at a U.S. college or university in a nuclear engineering, science, or eligible related degree with a 3.0/4.0 cumulative GPA at the time of appointment. Community college students must be working towards an Associate of Science or Associate of Engineering degree. All awards and active participation in the program are contingent upon security access approval to Oak Ridge National Laboratory.

Applicants must be able to participate a minimum of 10 weeks and must present at the required NESLS poster session on August 6, 2015. Most appointments will start on June 1 or June 8, 2015.

Qualifications: Student applicants will be chosen on the basis of academic performance, class standing, career goals, recommendations, and

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compatibility of educational interests and abilities with the needs of ORNL.

- Eligibility Requirements**
- **Degree:** Currently pursuing an Associate's Degree, Bachelor's Degree, Master's Degree, or Doctoral Degree.
 - **Overall GPA:** 3.00
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Computer, Information, and Data Sciences** ([16](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([45](#) )
 - **Mathematics and Statistics** ([10](#) )
 - **Other Non-Science & Engineering** ([2](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([1](#) )
 - **Social and Behavioral Sciences** ([4](#) )

Affirmation I certify that my cumulative GPA is at least 3.0/4.0, I will be 18 years old by start of appointment, and I am currently enrolled in an undergraduate or graduate nuclear engineering, science or related eligible degree program at a U.S. college or university. If in a community college, I am enrolled in an Associate of Science or Associate of Engineering degree program. I will participate at least 10 weeks and present at the required poster session on August 6, 2015.