

**Opportunity Title:** Nuclear Engineering Science Laboratory Synthesis (NESLS) - Spring 2015

**Opportunity Reference Code:** NESLS-Spring2015

**Organization** Oak Ridge National Laboratory (ORNL)

**Reference Code** NESLS-Spring2015

**Application Deadline** 12/31/2014 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 Technologies***

Material protection,  
control, and accounting

Radiation detection

Safeguards

Transportation technologies

Arms control assessments

Fissile material Detection

Export control

Fissile material disposition

Nuclear threat reduction

### ***Nuclear Systems Analysis, Design, and Safety***

Radiation shielding

Systems analysis

Reactor physics

Facility safety

Criticality safety

Risk assessment

Thermal hydraulics

Regulatory support

Nuclear data and codes

System instrumentation and controls

Material and fuel irradiation

Enrichment technology

Advanced space reactors

### ***Fuels, Isotopes, and Nuclear Materials***

Nuclear fuels

Separations science and technology

Heavy element production

Nuclear process and equipment design

Stable and radioactive isotopes

Robotics and remote handling

Medical isotope development


Chemical engineering

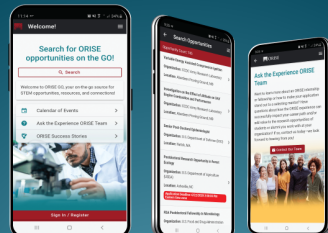
### **While You Are Here:**

- 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

**Application Procedure:** A limited number of slots are available during the






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spring session. Applicants may apply for NESLS via the online application form.

**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 \$125/week if located more than 50 miles from Oak Ridge. Questions on housing can be directed to Julie Ezold ([ezoldjg1@ornl.gov](mailto:ezoldjg1@ornl.gov)).

**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.

**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.*

**For additional information contact:**

**Julie Ezold**

Phone: (865) 574-9594

Email: [ezoldjg1@ornl.gov](mailto:ezoldjg1@ornl.gov)

**Qualifications Eligibility:** The ORNL NESLS program is open to full- or part-time students enrolled at a U.S. university with a 3.0/4.0 cumulative GPA at the time of appointment. All awards and active participation in the program are contingent upon security access approval to Oak Ridge National Laboratory.

**Qualifications:** Student applicants will be chosen on the basis of academic performance, class standing, career goals, recommendations, and compatibility of educational interests and abilities with the needs of ORNL.










- Eligibility Requirements**
- **Degree:** Currently pursuing a Bachelor's Degree, Master's Degree, or Doctoral Degree.
  - **Overall GPA:** 3.00

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- **Academic Level(s):** Graduate Students or Undergraduate Students.
- **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](#) )
  - **Physics** ([16](#) )
  - **Science & Engineering-related** ([1](#) )

**Affirmation** I certify that my cumulative GPA is at least 3.0/4.0, that I am or will be at least 18 years of age prior to start of appointment, and that I am currently enrolled in an undergraduate or graduate nuclear engineering, science or related degree program at a U.S. university/college.